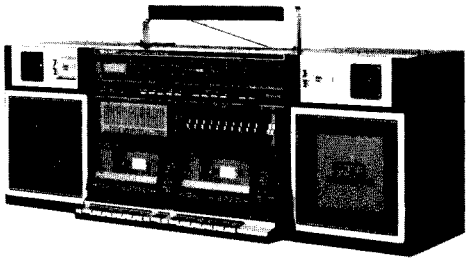
WF-940H/E

SHARP

SERVICE MANUAL/SERVICE-ANLEITUNG/MANUEL DE SERVICE



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DOLBY SYSTEM ®

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S5675WF940HBK

WF-940H(BK)
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Note for users in UK
Recording and playback of any material may require consent which SHARP is unable to give. Please refer particularly to the provisions of Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1958, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.
- Im Interesse der Benutzer-Sicherheit sollte dieses Gerät wieder auf seinen ursprünglichen Zustand eingestellt und nur die vorgeschriebenen Teile verwendet werden.
- Dans l'intérêt de la sécurité de l'utilisateur, l'appareil devra être reconstitué dans sa condition première et seules des pièces identiques à celles spécifiées, doivent être utilisées.

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SHARP CORPORATION

Ⓔ

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

GENERAL

Power source:	
(H Model for Europe)	AC 110 – 120 V and 220 – 240 V, 50/60 Hz DC 15 V (UM/SUM-1 or R20 type x 10, or external 15 V DC)
Power source: (H Model for other than Europe)	AC 110 – 127 V and 220 – 240 V, 50/60 Hz DC 15V (UM/SUM-1 or R20 type x 10, or enternal 15 V DC)
Power source: (E Model)	AC 110–120 V, and 220–240 V, 50/60 Hz DC 15 V (HP-2 or R20 type x 10, or external 15 V DC)
Output power: (DIN 45 324) (H Model for Europe)	MPO; 44 W (22 W + 22 W) (AC operation) RMS; 26 W (13 W + 13 W) (DC operation)
Output power: (H Model for other than Europe)	PMPO; 200 W (100 W + 100 W) (AC operation) RMS; 26 W (13 W + 13 W) (DC operation)
Output power: (E Model)	MPO; 70 W (35 W + 35 W) (AC operation) RMS; 26 W (13 W + 13 W) (DC operation, 10% distortion)
Input impedance:	External mic; 600 ohms Phono/line in/CD; 50 kohms
Loaded impedance:	Headphones; 8–32 ohms External speakers; 8–16 ohms Line out; 0.6 V/50 kohms
Dimensions:	Width; 680 mm Height; 250 mm Depth; 180 mm
Weight:	9.3 kg without batteries

TAPE RECORDER

Tape:	Compact cassette tape
Frequency response:	30–15,000 Hz (normal tape) 30–16,000 Hz (CrO_2 tape) 30–17,000 Hz (metal tape)
Signal/noise ratio:	55 dB (Tape 1, playback) 60 dB (Tape 2, recording with Dolby NR on)

RADIO

Frequency range:	LW; 150–285 kHz MW; 526.5–1,606.5 kHz SW; 5.95–18.0 MHz FM; 87.6–108 MHz

SPEAKER

Speakers:	210 cm^2 square-type flat diaphragm woofer x 2 5 cm tweeter x 2 Super tweeter x 2
Impedance:	8 ohms
Input:	26 W (maximum)

Specifications for this model are subject to change without prior notice.

VOLTAGE SELECTION

Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows: Slide the AC power supply socket cover by slightly loosing the screw to the visible indication of the side of your local voltage.

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EINE VOLLSTÄNDIGE BESCHREIBUNG DER BEDIENUNG DIESES GERÄTES IST IN DER BEDIENUNGSANLEITUNG ENTHALTEN.

TECHNISCHE DATEN

ALLGEMEIN

Spannungsversorgung:	Netz 110 – 120 V und 220 – 240 V, 50/60 Hz Gleichstrom 15 V (10 Batterien UM/SUM-1 oder R20 oder extern 15 V Gleichstrom)
Ausgangsleistung: (DIN 45 324)	Musikleistung 44 W (22 W + 22 W) (Netzbetrieb) RMS; 26 W (13 W + 13 W) (Gleichstrombetrieb)
Eingangsimpedanz:	Externes Mikrofon; 600 Ohm Phono/Line In/CD; 50 kOhm
Lastimpdanz:	Kopfhörer; 8–32 Ohm Externe Lautsprecher; 8–16 Ohm Line Out; 0,6 V/50 kOhm
Abmessungen:	Breite; 680 mm Höhe; 250 mm Tiefe; 180 mm
Gewicht:	9,3 kg ohne Batterien

CASSETTENRECORDER

Band:	Kompaktcassette
Frequenzgang:	30 – 15 000 Hz (Normalband) 30 – 16 000 Hz (CrO_2-Band) 30 – 17 000 Hz (Metallband)
Störspannungsabstand:	55 dB (TAPE 1, Wiedergabe) 60 dB (TAPE 2, Aufnahme mit Dolby-Rauschunterdrückung)

RADIO

Frequenzbereiche:	LW;	150 – 285 kHz
	MW;	526,5 – 1606,5 kHz
	KW;	5,95 – 18,0 MHz
	UKW;	87,6 – 108 MHz

LAUTSPRECHER

Lautsprecher:	210 cm^2 quadratischer Flachmembran-Tieftöner x 2 5 cm Hochtöner x 2 Super-Hochtöner x 2
Impedanz:	8 Ohm
Eingang:	26 W (maximum)

Die technischen Daten für dieses Modell können ohne vorherige Ankündigung Änderungen unterworfen sein.

SPANNUNGSWAHL

Vor Betrieb dieses Gerätes üder Netzspannung muß die Spannungsvoreinstellung des Spannungswählers überprüftwerden. Sollte die Einstellung des Spannungswählers nichtmit der örtlichen Netspannung übereinstimmen, diesen auf folgende Weise einstellen. Durch Lösen der Schrauben der Netzzuleitungsbuchsenabdeckung wird die Abdeckung auf die Spannungszahl der örtlichen Netzspannung geschoben.

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POUR LA DESCRIPTION COMPLÈTE DU FONCTIONNEMENT DE CET APPAREIL, SE REPORTER AU MODE D'EMPLOI.

CARACTÉRISTIQUES

GÉNÉRALITÉS

Alimentation:	CA 110 – 120 V et 220 – 240 V, 50/60 Hz CC 15 V (UM/SUM-1 ou type R20 x 10, ou CC ext 15 V)
Puissance de sortie: (DIN 45 324)	PSM; 44 W (22 W + 22 W) (fonctionnement sur secteur) EFF; 26 W (13 W + 13 W) (fonctionnement sur courant conrinu)
Impédance d'entrée:	Microphone ext; 600 ohms Phono/entrée ligne/CD; 50 kohms
Impédance de charge:	Casque; 8–32 ohms Enceintes acoustiques extérieures; 8–16 ohms Sortie ligne; 0,6 V/50 kohms
Dimensions:	Largeur; 680 mm Hauteur; 250 mm Profondeur;180 mm
Poids:	9,3 kg sans piles

PLATINE MAGNETOCASSETTE

Cassette:	Cassette compacte
Réponse en fréquence:	30 – 15 000 Hz (cassette normale) 30 – 16 000 Hz (cassette CrO_2) 30 – 17 000 Hz (cassette métal)
Rapport S/B:	55 dB (TAPE 1, lecture) 60 dB (TAPE 2, enregistrement DOLBY NR allumé)

RADIO

Gamme de fréquences:	GO;	150 – 285 kHz
	PO;	526,5 – 1606,5 kHz
	OC;	5,95 – 18,0 MHz
	FM;	87,6 – 108 MHz

ENCEINTES ACOUSTIQUES

Haut-parleurs:	Graves de 210 cm^2 à membrane plate type carré x 2 Aigus de 5 cm x 2 Super-aigus x 2
Impédance:	8 ohms
Entrée:	26 W (maximum)

Les caractéristiques de ce modèle sont sujettes à modification sans préavis.

SÉLECTION DE LA TENSION

Avant de brancher l'appareil sur l'alimentation de secteur, Vérifier la tension préréglée. Si la tension diffère de la tension locale, régler la tension de la facon suivante: faire glisser le couvercle de la douille d'alimentation de secteur, en desserrant un peu la vis, vers l'indication visible du côté de l'alimentation locale.

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NAMES OF PARTS

1. Hour/Sleep Off Button
2. Clock Adjust Button
3. Minute Button
4. Clock/Timer Display
5. Timer Adjust Button
6. Sleep On Button
7. Tape 1) Tape Switch
8. Tape 2) Tape Switches
9. Dubbing Switch
10. Dolby NR Switch
11. Function Switches
12. Radio Band Selector
13. FM Mode Switch
14. Tuning Control
15. Timer On/Off Switch
16. Power Switch
17. Volume Controls
18. Tape Counter and Reset Button
19. Microphone Sockets
20. Headphones Socket
21. Tape 2) Direction Switch
22. Tape 2) Reverse Mode Switch
23. Graphic Equalizer
24. Tape 1) Direction Switch
25. Tape 1) Reverse Mode Switch
26. Dubbing Start Button
27. APLD/APPS Clear Button
28. APLD/APPS Set Button
29. APLD/APPS Set Indicators
30. APPS End Pause Indicator
31. Dolby NR Indicator
32. FM Stereo Indicator
33. Sleep Indicator
34. Power Indicator
35. Spectrum Analyzer
36. Super Tweeter
37. Tweeter
38. Woofer
39. Cassette Compartment
40. Pause Button
41. Stop/Eject Button
42. Fast Wind Buttons
43. Play Button
44. Record Button
45. Pause Button
46. Stop/Eject Button
47. Fast Wind Buttons
48. Play Button
49. Play Button (Auto-Reverse continuing to TAPE 2)
50. Cassette Compartment
51. Speaker Release Lever
52. FM/SW Telescopic Rod Antenna
53. Line Output Sockets
54. Input Selector
55. Line Input Sockets
56. Earth Terminal
57. Beat Cancel Switch
58. External Speaker Terminals
59. Speaker Release Lever
60. AC Power Supply Socket
61. External DC Power Supply Socket
62. Timer and Main Battery Compartment

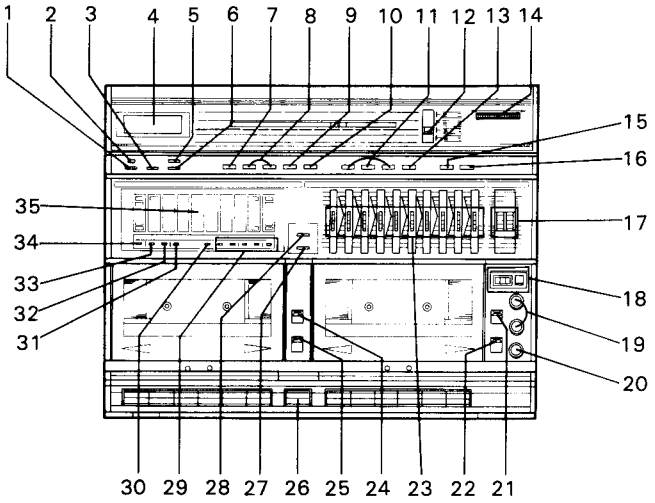


Figure 3—1

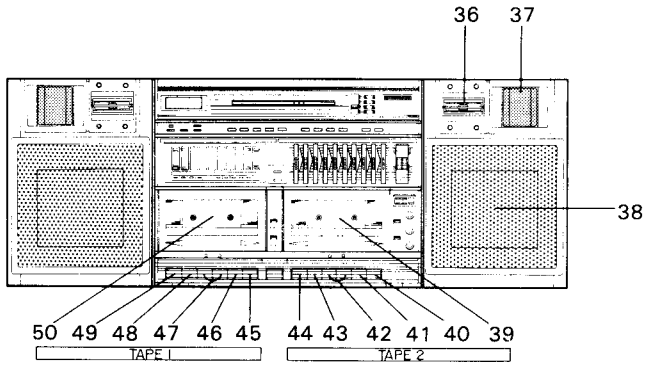


Figure 3—2

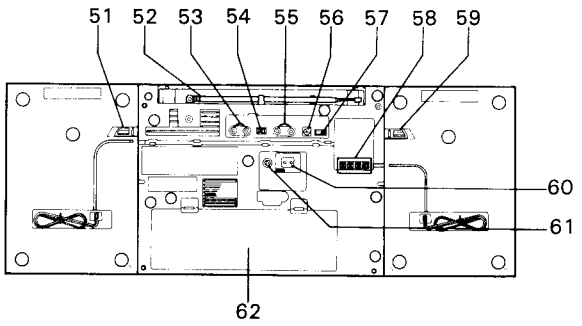


Figure 3—3

Ⓓ BEZEICHUNG DER TEILE

1. Stunden/Einschlafschaltuhr-Ausschalttaste
2. Uhreinstelltaste
3. Minuten-Taste
4. Uhr/Schaltuhr-Anzeige
5. Schaltuhr-Einstelltaste
6. Einschlafschaltuhr-Einschalttaste
7. Deck 1) Cassettenschalter
8. Deck 2) Cassettenschalter
9. Überspielschalter
10. Dolby-Rauschunterdrückung-Schalter
11. Funktionsschalter
12. Wellenbandwähler
13. UKW-Empfangsartschalter
14. Abstimmregler
15. Schaltuhr-Ein/Aus-Schalter
16. Ein/Aus-Schalter
17. Lautstärkeregler
18. Bandzählwerk und Rückstellknopf
19. Mikrofonbuchsen
20. Kopfhörerbuchse
21. Bandlaufrichtungsschalter für Deck 2
22. Deck 2) Umkehrbetriebsartschalter
23. Graphic Equalizer-Regler
24. Bandlaufrichtungsschalter für Deck 1
25. Deck 1) Umkehrbetriebsartschalter
26. Überspielstarttaste
27. APLD/APPS-Löschtaste
28. APLD/APPS-Einstelltaste
29. APLD/APPS-Einstellanzeigen
30. APPS-Pauseende-Anzeige
31. Dolby-Rauschunterdrückung-Anzeigen
32. UKW-Stereoanzeige
33. Einschlafschaltuhr-Anzeige
34. Betriebsanzeige
35. Spektrum-Analysator
36. Super-Hochtöner
37. Hochtöner
38. Tieftöner
39. Cassettenfach
40. Pausetaste
41. Stop/Auswurf-Taste
42. Schnellspultasten
43. Wiedergabetaste
44. Aufnahmetaste
45. Pausetaste
46. Stop/Auswurf-Taste
47. Schnellspultasten
48. Wiedergabetaste
49. Wiedergabetaste (Auto Reverse kontinuierlich zu TAPE 2)
50. Cassettenfach
51. Lautsprecher-Freigabehebel
52. UKW/KW-Teleskopantenne
53. Hochpegel-Ausgangsbuchsen
54. Eingangswahlschalter
55. Hochpegel-Eingangsbuchsen
56. Erdungsklemme
57. Interferenzenschalter
58. Anschlüsse für externe Lautsprecher
59. Lautsprecher-Freigabehebel
60. Netzeingang
61. Gleichstrom-Eingangsbuchse
62. Schaltuhr- und Haupt-Batteriefach

Ⓕ NOMENCLATURE

1. Touche d'arrêt de mise sur arrêt différée/heures
2. Touche de réglage de l'horloge
3. Touche des minutes
4. Affichage horloge/minuterie
5. Touche de réglage de la minuterie
6. Touche de marche mise sur arrêt différée
7. Platine 1) Commutateur de cassette
8. Platine 2) Commutateurs de cassette
9. Commutateur de copie
10. Commutateur Dolby NR
11. Commutateurs de fonctions
12. Sélecteur de gammes radio
13. Commutateur de mode FM
14. Commande de syntonisation
15. Interrupteur marche-arrêt minuterie
16. Interrupteur marche-arrêt
17. Réglages volume
18. Compteur de bande et bouton de remise à zéro
19. Prises microphone
20. Prise casque
21. Platine 2) Commutateur de sens
22. Platine 2) Commutateur de mode d'inversion
23. Egaliseur-correcteur graphique
24. Platine 1) Commutateur de sens
25. Platine 1) Commutateur de mode d'inversion
26. Touche de démarrage de la copie
27. Touche d'annulation APLD/APPS
28. Touche de réglage APLD/APPS
29. Voyants de réglage APLD/APPS
30. Voyant de pause de fin APPS
31. Témoin Dolby NR
32. Voyant FM stéréo
33. Voyant de mise sur/arrêt différée
34. Voyant d'alimentation
35. Analyseur spectral
36. Haut-parleur des super-aigus
37. Haut-parleur des aigus
38. Haut-parleur des graves
39. Compartiment cassette
40. Touche de pause
41. Touche d'arrêt/éjection
42. Touches d'avance rapide
43. Touche de lecture
44. Touche d'enregistrement
45. Touche de pause
46. Touche d'arrêt/éjection
47. Touches d'avance rapide
48. Touche de lecture
49. Touche de lecture (Inversion automatique vers TAPE 2)
50. Compartiment cassette
51. Levier de déblocage des enceintes acoustiques
52. Antenne rigide télescopique FM/OC
53. Prises de sortie ligne
54. Sélecteur d'entrée
55. Prises d'entrée ligne
56. Prise de terre
57. Commutateur antibattement
58. Prises pour haut-parleurs extérieurs
59. Levier de déblocage des enceintes acoustiques
60. Entrée secteur
61. Entrée CC extérieur
62. Logement des piles principales et pour minuterie

Ⓔ

DISASSEMBLY

Caution on Disassembly
Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep its safety and excellent performance:

1. Take cassette tape out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit and remove the batteries from the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
Main Body Section			
1	Front panel	1. Battery compartement lid..... (A) 2. Screw..... (B)x8 3. Open the cassette holder.	6−1
2	Timer PWB	1. Screw..... (C)x2	6−2
3	Tuner frame	1. Screw ..... (D)x1 2. Socket ..... (E)x2	6−2
4	Mechanism block (TAPE 1, 2)	1. Tape counter drive belt... (F) 2. Screw ..... (G)x4 3. Socket..... (H)x4	6−2
5	Main PWB	1. Screw..... (I)x3	6−2
6	Power amp PWB	1. Screw..... (J)x1 2. Lever ..... (K) 3. Screw ..... (L)x2	6−3
Speaker Section			
1	Front panel	1. Screw..... (M)x5 2. Bushing..... (N)	6−4

- **Cares When Assembling**
  Push the play buttons of TAPE 1 and TAPE 2 mechanisms before fitting the front panel of main body, and then fit the front panel in the state that the direction knobs is set to lower side (Side B position).(Refer to Fig.6−5)

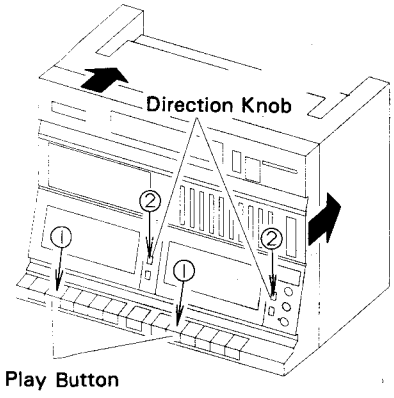


Figure 6−5

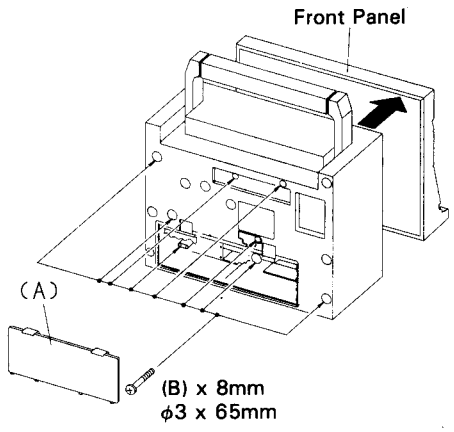


Figure 6−1

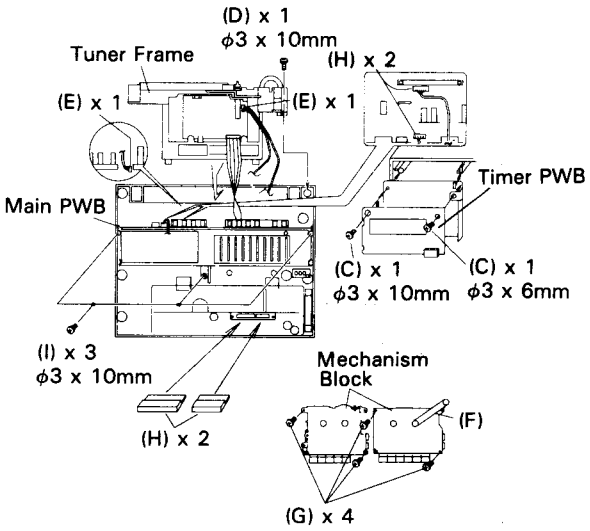


Figure 6−2

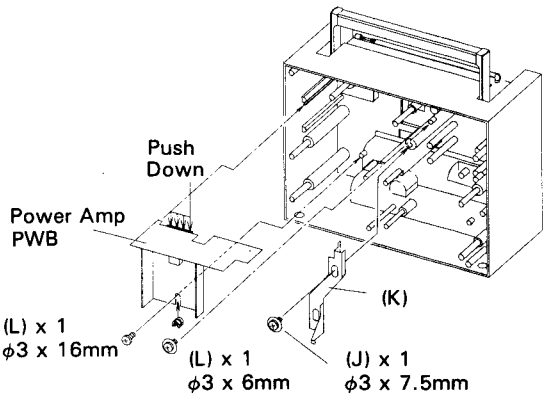


Figure 6−3

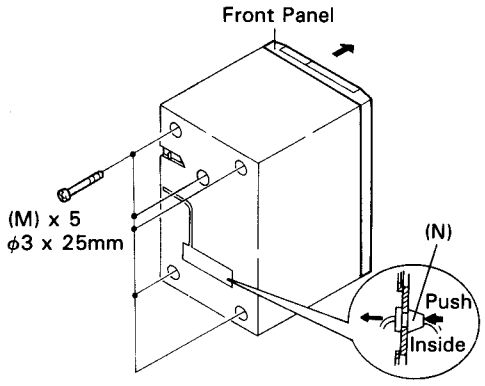


Figure 6−4

Ⓓ ZERLEGEN

Vorsichtsmassregeln Für Das Zerlegen
Beim Zerlegen und Zusammenbauen des Gerätes die folgenden Anweisungen befolgen, um dessen Betriebssicherheit und ausgezeichnete Leistung aufrechtzuerhalten.
1. Die Cassette aus dem Gerät entfernen.
2. Bevor mit dem Zerlegen des Gerätes begonnen wird, unbedingt den Netzkabelstecker aus der Netzsteckdose ziehen und die Batterien aus dem Gerät entfernen.
3. Nylonbänder oder Leitungshalter entfernen, falls dies beim Zerlegen des Gerätes erforderlich ist. Nach Warten des Gerätes darauf achten, die Leitungen wieder so zu verlegen, wie sie vor den Zerlegen angeordnet waren.
4. Beim Ausführen von Wartungsarbeiten auf statische Elektrizität der integrierten Schaltkreise und anderen Schaltungen achten.

SCHRITT	ENTFERNEN	VERFAHREN	ABBILDUNG
Geräte-Hauptteil			
1	Frontplatte	1. Batteriefachdeckel ..... (A) 2. Schraube..... (B)x8 3. Cassettenhalter öffnen.	6—1
2	Timer-Leiterplatte	1. Schraube..... (C)x2	6—2
3	Tuner-Rahmens	1. Schraube..... (D)x1 2. Buchse..... (E)x2	6—2
4	Laufwerkblock (TAPE 1, 2)	1. Bandzähl-werk-Antriebsriemen..... (F) 2. Schraube ..... (G)x4 3. Buchse ..... (H)x4	6—2
5	Hauptleiterplatte	1. Schraube..... (I)x3	6—2
6	Leistungsverstärker-Leiterplatte	1. Schraube ..... (J)x1 2. Hebel ..... (K) 3. Schraube ..... (L)x2	6—3
Lautsprecherteil			
1	Frontplatte	1. Schraube ..... (M)x5 2. Tülle ..... (N)	6—4

- **Vorsichtsmaßnahmen beim Zusammenbau**
  Die Wiedergabetasten der TAPE 1 und TAPE 2 Laufwerke drücken, bevor die Frontplatte an das Gerät angebracht wird. Die Frontplatte so anbringen, daß sich die Richtungsknöpfe auf der Unterseite befinden (auf der Seite B). (Siehe Abb. 6—5)

Ⓕ DÉMONTAGE

Précautions pour le démontage
Lors du démontage de l'appareil et de son remontage, suivre les précautions ci-dessous, pour maintenir la sécurité et d'excellentes performances.
1. Déposer la bande cassette de l'appareil.
2. S'assurer de retirer la fiche d'alimentation secteur de la prise murale avant de démarrer le démontage de l'appareil et déposer les piles de l'appareil.
3. Déposer les bandes de nylon ou les serre-câbles si nécessaire lors du démontage de l'appareil. Après la réparation de l'appareil, s'assurer de redisposer les fils tel qu'ils étaient avant le démontage.
4. Faire attention à l'électricité statique des circuits intégrés et des autres circuits lors de la réparation.

ÉTAPE	DÉPOSE	PROCÉDÉ	FIGURE
Carps principal			
1	Panneau avant	1. Couvercle du compartiment des piles..... (A) 2. Vis ..... (B)x8 3. Ouvrir le porte-cassette.	6—1
2	PMI minuterie	1. Vis ..... (C)x2	6—2
3	Charpente de tuner	1. Vis ..... (D)x1 2. Douille..... (E)x2	6—2
4	Bloc du décanisme (TAPE 1, 2)	1. Courroie d'entraînement du compteur de bande ..... (F) 2. Vis ..... (G)x4 3. Douille ..... (H)x4	6—2
5	PMI principale	1. Vis ..... (I)x3	6—2
6	PMI de amplificateur de puissance	1. Vis..... (J)x1 2. Levier ..... (K) 3. Vis..... (L)x2	6—3
Enceinte			
1	Panneau avant	1. Vis..... (M)x5 2. Garniture ..... (N)	6—4

- **Précautions à prendre pour le montage**
  Appuyer sur les boutons de lecture des mécanismes des TAPE 1 et 2 avant de fixer le panneau avant du corps principal de telle sorte que les boutons de direction soient orientés vers le bas (position de face B). (Voir la Fig. 6—5)

Ⓔ STRINGING OF DIAL CORD

1. Turn the drum fully in the direction Ⓐ shown in Fig. 8—1 and stretch its cord over the parts in the numerical order.
2. Then turn the tuning control shaft fully in the direction Ⓑ shown in Fig. 8—1 and fix its pointer as shown in Fig. 8—1.

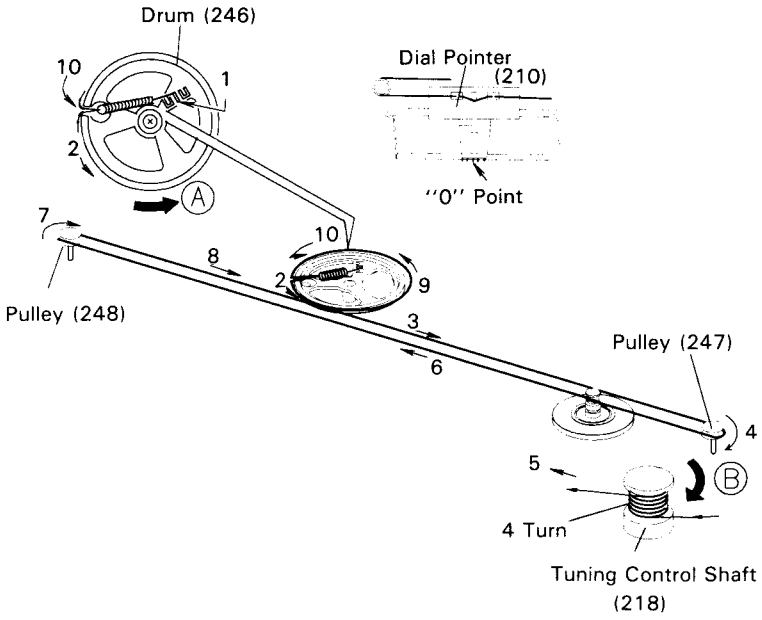


Figure 8—1

Ⓓ SPANNEN DER SKALENSCHNUR

1. Die Trommel gemäß Abb. 8—1 bis zum Anschlag in Richtung Ⓐ drehen, dann die Schnur in der numerischen Reihenfolge über die einzelnen Teile spannen.
2. Die Abstimmstellerachse gemäß Abb. 8—1 bis zum Anschlag in Richtung Ⓑ drehen, dann den Zeiger gemäß Abb. 8—1 befestigen.

Ⓕ PASSAGE DU CORDON DU CADRAN

1. Tourner le tambour entièrement dans le sens Ⓐ montré sur la Fig. 8—1 et passer le cordon sur les organes indiqués et dans l'ordre numérique.
2. Tourner l'abre de commande d'accord entièrement dans le sens Ⓑ montré sur la Fig. 8—1 et fixer son index comme le montre la Fig. 8—1.

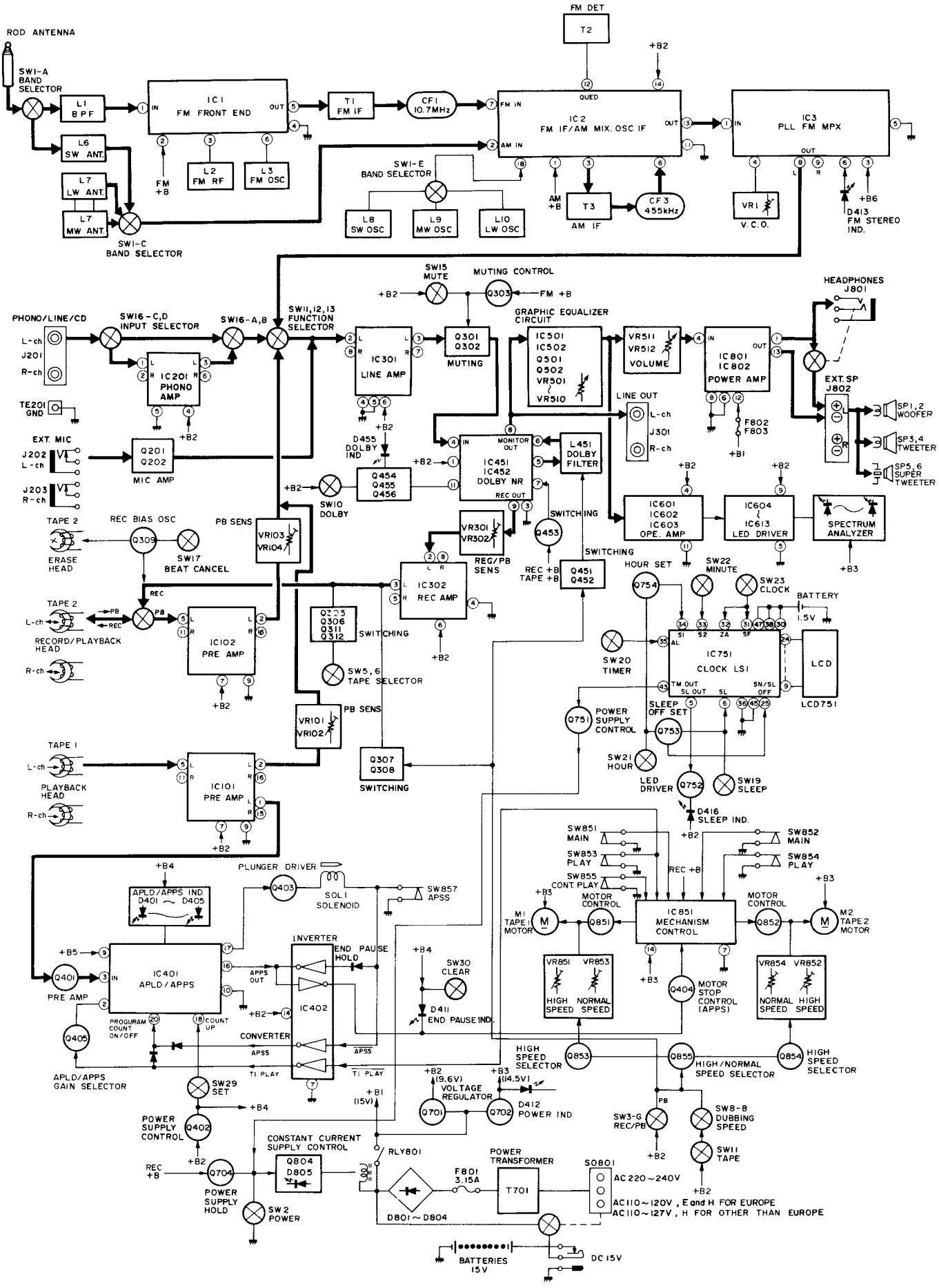


Figure 9 BLOCK DIAGRAM

Ⓔ

MECHANICAL ADJUSTMENT

ITEM	JIG	ADJUSTMENT POINTS	REMARK (CHECK)
Driving power	Tape tension measuring cassette Play, Forward TW-2412 Play, Reverse TW-2422	—	(More than 150 g)
Torque	Torque meter Play, Forward TW-2111 Play, Reverse TW-2121 Fast-forward TW-2231 Rewind TW-2231	—	(Play: 30—60 g-cm) (Fast-forward: 90—135 g-cm) (Rewind: 90—135 g-cm)
Azimuth	Test tape MTT-114	Azimuth adjusting screw	Sine waveform attains the maximum.
Tape speed	Test tape High speed MTT-111 Normal speed MTT-111	High speed TAPE 1: VR851 TAPE 2: VR852 Normal speed TAPE 1: VR853 TAPE 2: VR854 * Short TP801 and ground when performing the high speed adjustment.	High speed 6,000 ±80 Hz Normal speed 3,000 ±30 Hz

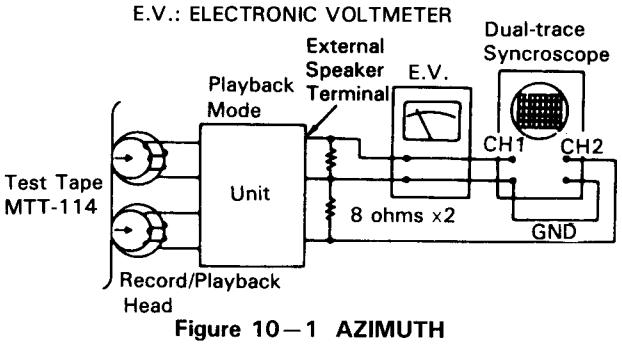


Figure 10—1 AZIMUTH

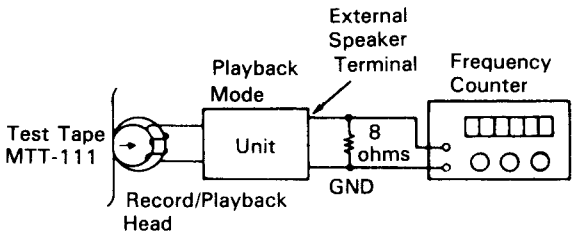


Figure 10—2 TAPE SPEED

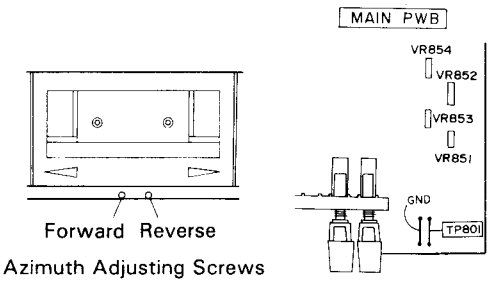


Figure 10—3 ADJUSTMENT POINTS

Ⓓ MECHANISCHE EINSTELLUNG

BENENNUNG	FÜHRUNGSLEHRE	EINSTELL-PUNKT	BEMERKUNGEN (PRÜFUNG)
Antriebskraft	Bandzug-Meßcassette Wiedergabe, vorwärts: TW-2412 Wiedergabe, rückwärts: TW-2422	—	(Mehr als 150 g)
Drehmoment	Drehmomentmesser Wiedergabe, vorwärts: TW-2111 Wiedergabe, rückwärts: TW-2121 Schnellvorlauf: TW-2231 Rückspulung: TW-2231	—	(Wiedergabe: 30 — 60 g-cm) (Schnellvorlauf: 90 — 135 g-cm) (Rückspulung: 90 — 135 g-cm)
Azimut	Testband MTT-114	Azimuteinstellschraube	Sinuswellenform wird maximal.
Bandgeschwindigkeit	Testband Hohe Geschwindinkeit MTT-111 Normal Geschwindigkeit MTT-111	Hohe Geschwindigkeit TAPE 1: VR851 TAPE 2: VR852 Normal Geschwindigkeit TAPE 1: VR853 TAPE 2: VR854 * Bei der Einstellung der hohen Geschwindigkeit TP801 und Erde Kurzchlie Ben.	Hohe Geschwindigkeit 6 000 ± 80Hz Normal Geschwindigkeit 3 000 ± 30 Hz

Ⓕ RÉGLAGE MÉCANIQUE

ARTICLE	GABARIT	POINTS DE RÉGLAGE	REMARQUES (VÉRIFICATION)
Puissance d'entraînement	Cassette de mesure de tension de la bande Lecture, avance: TW-2412 Lecture, retour: TW-2422	—	(Plus de 150 g)
Couple	Compteur de couple Lecture, avance: TW-2111 Lecture, retour: TW-2121 Avance rapide: TW-2231 Rebobinage: TW-2231	—	(Lecture: 30 à 60 g-cm) (Avance rapide: 90 à 135 g-cm) (Rebobinage: 90 à 135 g-cm)
Azimuth	Bande d'essai MTT-114	Vis de réglage de l'azimuth	La forme d'onde sinusoïdale atteint le maximum.
Vitesse de la bande	Bande d'essai Grande vitesse MTT-111 Vitesse normale MTT-111	Grande vitesse TAPE 1: VR851 TAPE 2: VR852 Vitesse normale TPAE 1: VR853 TAPE 2: VR854 * Mettre la platine TP801 à la terre lors du réglage à vitesse élevé.	Grande vitesse 6 000 ± 80 Hz Vitesse normale 3 000 ± 30 Hz

Ⓔ CIRCUIT ADJUSTMENT (AUDIO SECTION)

SETTING POSITION OF SWITCH AND KNOB	• Dolby NR Switch: Off • Dubbing Speed: Normal • Volume control: Maximum • Graphic equalizer: Center • Function selector switch: Tape • Tape selector switch: Normal • Beat cancel switch: A		
ITEM	**INPUT**	**ADJUSTMENT POINT**	**REMARKS (CHECK)**
BIAS OSCILLATION FREQUENCY	—	—	(A: 104 ± 3.5 kHz) (B: 98 ± 3 kHz) (C: 99.5 ± 3.5 kHz)
ERASE CURRENT	—	—	(Normal: 45 ± 20 mV)
TAPE 1 PLAYBACK SENSITIVITY	Test tape MTT-150	L: VR101 R: VR102	(Normal: 580 mV)
TAPE 2 PLAYBACK SENSITIVITY	Test tape MTT-150	L: VR103 R: VR104	(Normal: 580 mV)
RECORD/ PLAYBACK SENSITIVITY	Non-recorded tape MTT-502 400 Hz, −14 dBV (1 V = 0 dB)	L: VR301 R: VR302	1. Adjust the CR oscillator so that the electronic voltmeter reads 200 mV. 2. Playback the normal tape recorded and adjust the semi-variable resistor so that the electronic voltmeter reads 200 mV.
CLOCK REFERENCE FREQUENCY	—	TC751	32.768 kHz ± 0.15 Hz

E.V.: ELECTRONIC VOLTMETER

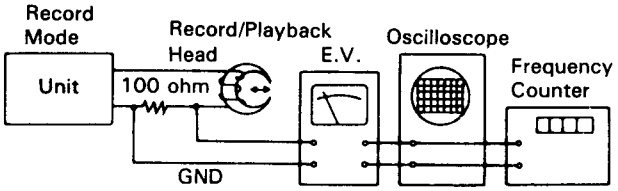


Figure 12−1 BIAS OSCILLATION FREQUENCY

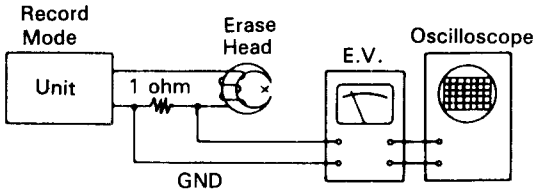


Figure 12−2 ERASE CURRENT

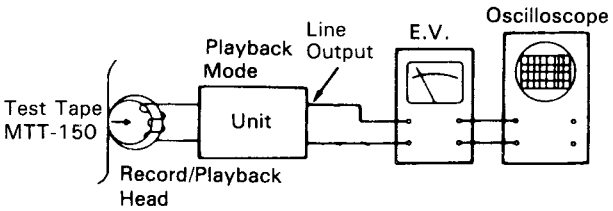


Figure 12−3 PLAYBACK AMPLIFIER SENSITIVITY

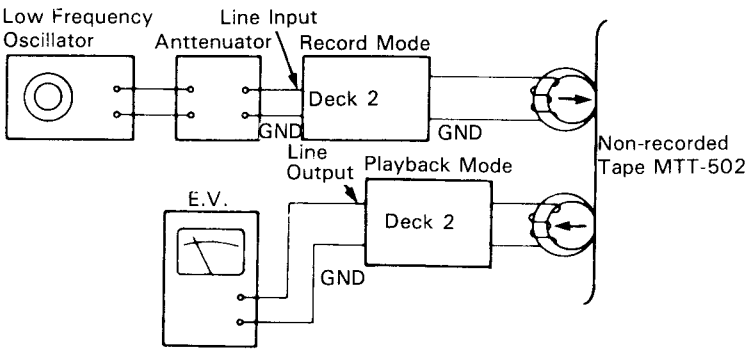


Figure 12−4 RECORD/PLAYBACK SENSITIVITY

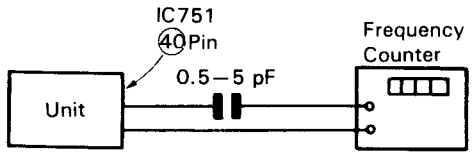


Figure 12−6 CLOCK REFERENCE FREQUENCY

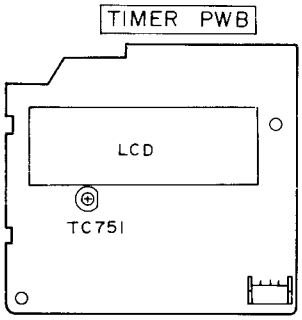


Figure 12−7 ADJUSTMENT POINT

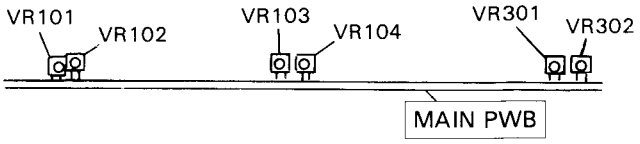


Figure 12−5 ADJUSTMENT POINT

Ⓓ SCHALTUNGSEINSTELLUNG (TONTEIL)

SCHALTER- UND STELLER-EINSTELL-POSITION	• Dolby-NR-Schalter: Aus • Überspielgeschwindigkeit: Normal • Lautstärkesteller: Maximal • Graphischer Frequenzgangentzerrer: Mitting • Funktionswahlschalter: Tape (Band) • Bandsortemwahlscalter: Normal • Schwebungsunterdrückungsschalter: A		
BENENNUNG	**EINGANG**	**EIN-STELLPUN-KT**	**BEMERKUNGEN (PRÜFUNG)**
VORMAGNETI-SIERUNGS-SCHWING-FREQUENZ	–	–	(A: 104 ± 3,5 kHz) (B: 98 ± 3 kHz) (C: 99,5 ± 3,5 kHz)
LÖSCHSTROM	–	–	(Normal: 45 ± 20 mV)
WIEDERGABE-EMPFIND-LICHKEIT VON TAPE 1	Testband MTT-150	L: VR101 R: VR102	(Normalband: 580 mV)
WIEDERGABE-EMPFIND-LICHKEIT VON TAPE 2	Testband MTT-150	L: VR103 R: VR104	(Normalband: 580 mV)
AUFNAHME-/ WIEDERGABE-EMPFIND-LICHKEIT	Unbespiel-tes Band MTT-502 400 Hz, −14 dBV (1 V = 0 dB)	L: VR301 R: VR302	1. Den Kristaloszillator so einstellen, daß der elektronische Spannungsmesser 200 mV anzeight. 2. Das bespielte Normalband wiedergeben und den Trimmer so einsteelen, daß der elektronische Spannungsmesser 200 mV anzeigt.
UHRENBE-SUGS-FREQUENZ	–	TC751	32, 768 kHz ± 0,15 Hz

Ⓕ RÉGLAGE DU CIRCUIT (SECTION DU AUDIO)

RÉGLAGE DE LA POSITION DES COMMU-TATEURS ET BOUTONS	• Commutateur Dolby NR: Coupé • Vitesse de copie: Normale • Commande de volume: Maximum • Egalisateur graphyque: Centre • Commutateur de sélection de fonction: Bande • Commutateur de sélection de band: Normale • Commutateur de suppression de battement: A		
ARTICLE	**ENTRÉE**	**POINT DE RÈGLAGE**	**REMARQUES (VÉRIFICATION)**
FRÉQUENCE DE L'OSCILLA-TION DE POLARI-SATION	–	–	(A: 104 ± 3,5 kHz) (B: 98 ± 3 kHz) (C: 99,5 ± 3,5 kHz)
COURANT D'EFFACE-MENT	–	–	(Normale: 45 ± 20 mV)
SENSIBILITÉ DE LECTURE DE LA TAPE 1	Bande d'essai MTT-150	G: VR101 D: VR102	(Normal: 580 mV)
SENSIBILITÉ DE LECTURE DE LA TAPE 2	Bande d'essai MTT-150	G: VR103 D: VR104	(Normal: 580 mV)
SENSIBILITÉ D'ENREGIS-TREMENT/ LECTURE	Bande non enregistrée MTT-502 400 Hz, −14 dBV (1 V = 0 dB)	G: VR301 D: VR302	1. Régler l'oscillateur CR de telle sorte que le voltmètre électronique indique 200 mV. 2. Lire une bande normale enregistrée et régler la résistance semi-variable de telle sorte que le voltmètre électronique indique 200 mV.
FREQUENCE DE REFE-RENCE DE LA MONTRE	–	TC751	32,768 kHz ±0,15 Hz

Ⓔ CIRCUIT ADJUSTMENT (TUNER SECTION)

AM IF/RF ADJUSTMENT

SIGNAL GENERATOR		400 Hz, 30%, AM modulated			
STEP	TEST STAGE	FRE-QUENCY	DIAL POINTER SETTING	AD-JUST-MENT	REMARKS
MW IF					
1	IF	H: 455 kHz E: 468 kHz	High frequency	T3	Adjust for best "IF" curve.
LW RF					
2	Band coverage	145 kHz	Lowest frequency	L10	Adjust for maximal output.
3		295 kHz	Highest frequency	TC8	
4	Repeat steps 2 and 3 until no further improvement can be made.				
5	Tracking	170 kHz	170 kHz	L7	Adjust for maximal output.
6		270 kHz	270 kHz	TC5	
7	Repeat steps 5 and 6 until no further improvement can be made.				
MW RF					
8	Band coverage	510 kHz	Lowest frequency	L9	Adjust for maximal output.
9		1,650 kHz	Highest frequency	TC7	
10	Repeat steps 8 and 9 until no further improvement can be made.				
11	Tracking	600 kHz	600 kHz	L7	Adjust for maximal output.
12		1,400 kHz	1,400 kHz	TC4	
13	Repeat steps 11 and 12 until no further improvement can be made.				
SW RF					
14	Band coverage	5.85 MHz	Lowest frequency	L8	Adjust for maximal output.
15		18.5 MHz	Highest frequency	TC6	
16	Repeat steps 14 and 15 until no further improvement can be made.				
17	Tracking	6.5 MHz	6.5 MHz	L6	Adjust for maximal output.
18		16 MHz	16 MHz	TC3	
19	Repeat steps 17 and 18 until no further improvement can be made.				

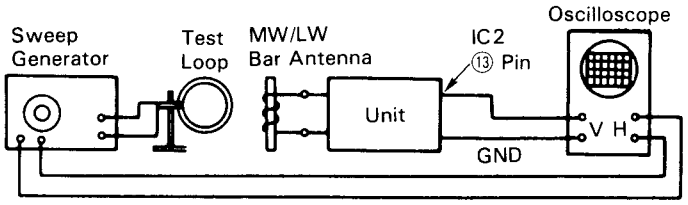


Figure 14—1 AM IF

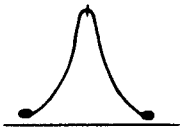


Figure 14—2 AM IF CURVE

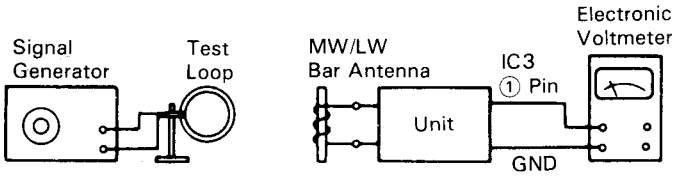


Figure 14—3 LW/MW RF

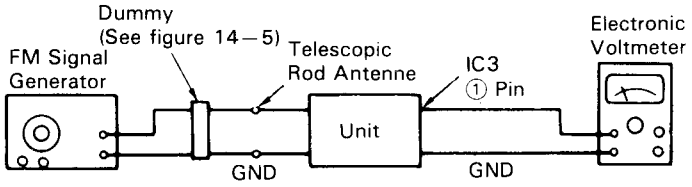


Figure 14—4 SW RF

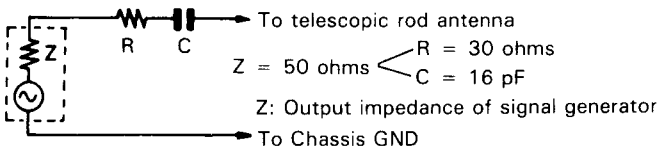


Figure 14—5 SW DUMMY

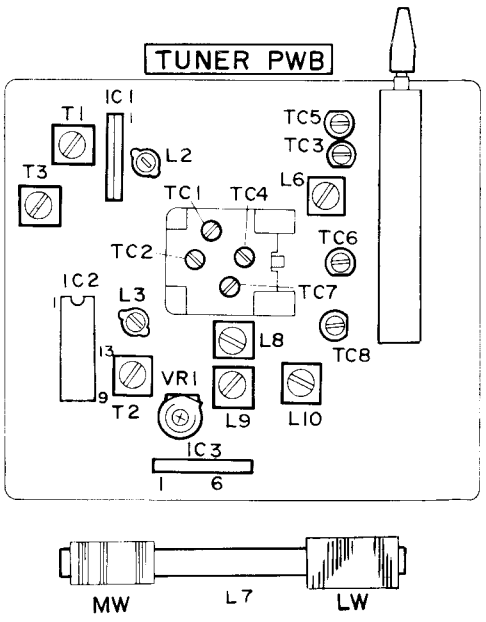


Figure 14—6 ADJUSTMENT POINTS

Ⓓ SCHALTUNGSEINSTELLUNG (TUNERTEIL)

AM-ZF/HF EINSTELLUNG

SIGNAL-GENERATOR		400 Hz, 30%, AM-Modulation			
SCH-RITT	PRÜF-STUFE	FRE-QUENZ	SKALEN ZEIGE-REINSTE-LLUNG	EIN-STELL-UNG	BEMERKUNGEN
MW ZF					
1	ZF	455 kHz	Hoch-frequenz	T3	Auf beste ZF-Kurve einstellen.
LW HF					
2	Fre-quenz-bereich	145 kHz	Unterste Frequenz	L10	Auf maximalen Ausgang einstellen.
3		295 kHz	Höchste Frequenz	TC8	
4	Die Schritte 2 und 3 wiederholen, bis keine weitere Verbesserung möglich ist.				
5	Gleichlauf	170 kHz	170 kHz	L7	Auf maximalen Ausgang einstellen.
6		270 kHz	270 kHz	TC5	
7	Die Schritte 5 und 6 wiederholen, bis keine weitere Verbesserung möglich ist.				
MW HF					
8	Fre-quenz-bereich	510 kHz	Unterste Frequenz	L9	Auf maximalen Ausgang einstellen.
9		1 650 kHz	Höchste Frequenz	TC7	
10	Die Schritte 8 und 9 wiederholen, bis keine weitere Verbesserung möglich ist.				
11	Gleichlauf	600 kHz	600 kHz	L7	Auf maximalen Ausgang einstellen.
12		1 400 kHz	1 400 kHz	TC4	
13	Die Schritte 11 und 12 wiederholen, bis keine weitere Verbesserung möglich ist.				
KW HF					
14	Fre-quenz-bereich	5,85 MHz	Unterste Frequenz	L8	Auf maximalen Ausgang einstellen.
15		18,5 MHz	Höchste Frequenz	TC6	
16	Die Schritte 14 und 15 wiederholen, bis keine weitere Verbesserung möglich ist.				
17	Gleichlauf	6,5 MHz	6,5 MHz	L6	Auf maximalen Ausgang einstellen.
18		16 MHz	16 MHz	TC3	
19	Die Schritte 17 und 18 wiederholen, bis keine weitere Verbesserung möglich ist.				

Ⓕ RÉGLAGE DU CIRCUIT (SECTION DU TUNER)

RÉGLAGE DE FI/RF AM

GÉNÉRATEUR DE SIGNAUX		400 Hz, 30%, modulé AM			
ÉTAPE	ÉTAGE D'ESSAI	FRÉ-QUENCE	MISE AU POINT DE L'INDEX	RÉGLA-GE	REMARQUES
FI PO					
1	FI	455 kHz	Haute fréquence	T3	Régler sur la meilleure courbe "FI".
RF GO					
2	Étendue de gamme d'ondes	145 kHz	Fréquence la plus basse	L10	Régler sur la sortie maximale.
3		295 kHz	Fréquence la plus élevée	TC8	
4	Refaire les étapes 2 et 3 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
5	Alignement	170 kHz	170 kHz	L7	Régler sur la sortie maximale.
6		270 kHz	270 kHz	TC5	
7	Refaire les étapes 5 et 6 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
RF PO					
8	Étendur de gamme d'ondes	510 kHz	Fréquence la plus basse	L9	Régler sur la sortie maximale.
9		1 650 kHz	Fréquence la plus élevée	TC7	
10	Refaire les étapes 8 et 9 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
11	Alignement	600 kHz	600 kHz	L7	Régler sur la sortie maximale.
12		1 400 kHz	1 400 kHz	TC4	
13	Refaire les étapes 11 et 12 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
RF OC					
14	Étendue de gamme d'ondes	5,85 MHz	Fréquence la plus basse	L8	Régler sur la sortie maximale.
15		18,5 MHz	Fréquence la plus élevée	TC6	
16	Refaire les étapes 14 et 15 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
17	Alignement	6,5 MHz	6,5 MHz	L6	Régler sur la sortie maximale.
18		16 MHz	16 MHz	TC3	
19	Refaire les étapes 17 et 18 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				

Ⓔ

FM IF/RF ADJUSTMENT

SWITCH POSITION		Function Selector: Radio Band Selector: FM FM Mode: Stereo Volume Control: Maximum			
SIGNAL GENERATOR		400 Hz, 30%, FM modulated			
STEP	TEST STAGE	FRE-QUENCY	DIAL POINTER SETTING	AD-JUST-MENT	REMARKS
1	IF	10.7 MHz	High frequency	T1	1. Using a minus driver, turn the core of T2 counterclock-wise before taking it out of the bobbin. 2. Adjust for best "IF" curve.
2	Detection			T2	Adjust for best "S" curve.
3	Repeat steps 1 and 2 until no further improvement can be made.				
4	Band coverage	87.3 MHz	Lowest frequency	L3	Adjust for maximal output.
5		108.3 MHz	Highest frequency	TC2	
6	Repeat steps 4 and 5 until no further improvement can be made.				
7	Tracking	88 MHz	88 MHz	L2	Adjust for maximal output.
8		108 MHz	108 MHz	TC1	
9	Repeat steps 7 and 8 until no further improvement can be made.				

VCO FREQUENCY ADJUSTMENT

SIGNAL GENERATOR	400 Hz, 30%, FM modulated (mono signal)		
FREQUENCY	DIAL POINTER SETTING	AD-JUST-MENT	REMARKS
FM mono position		FM stereo position (unmodulated)	
98 MHz at 54 dB	98 MHz	VR1	Adjust for 38.00 kHz ± 100 Hz.

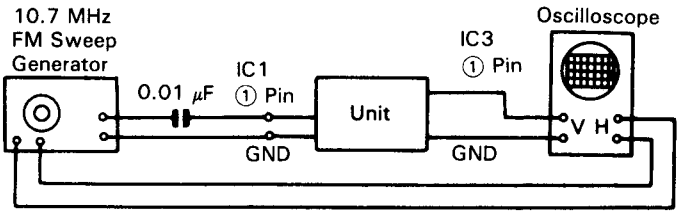


Figure 16—1 FM IF

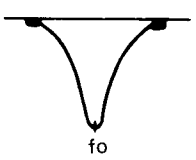


Figure 16—2 FM IF CURVE

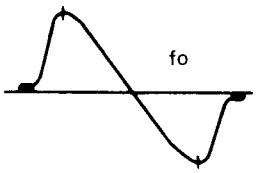


Figure 16—3 FM S CURVE

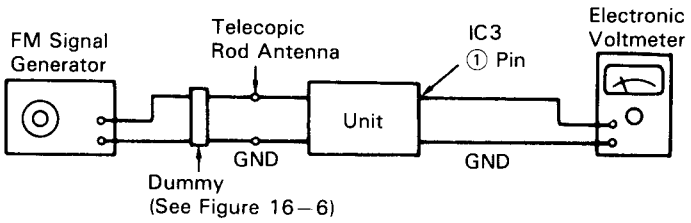


Figure 16—4 FM RF

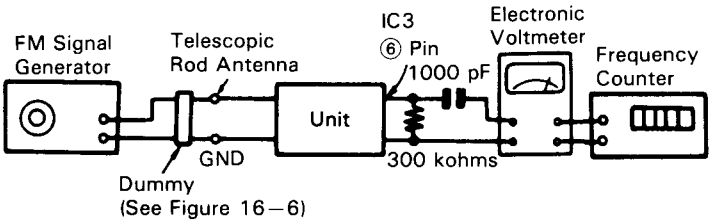


Figure 16—5 VCO FREQUENCY

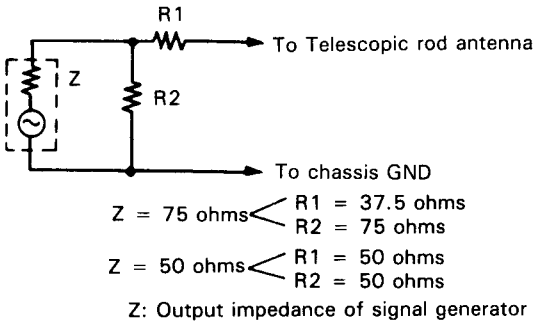


Figure 16—6 FM DUMMY

Ⓓ

UKW-ZF/HF-EINSTELLUNG

SCHALTER-STELLUNG		Funktionswahlschalter: Radio-teil Wellenbereichswahlschalter: UKW UKW-Betriebsartenschalter: Stereo Lautstärkesteller: Maximal			
SIGNAL-GENERATOR		400 Hz, 30%, UKW-Modulation			
SCHRITT	**PRÜFSTUFE**	**FREQUENZ**	**SKALENZEIGEREINSTELLUNG**	**EINSTELLUNG**	**BEMERKUNGEN**
1	ZF	10,7 MHz	Hochfrequenz	T1	1. Den Kern von T2 mit Hilfe eines normalen Schraubenziehers entgegen dem Uhrzeigersinn drehen, bevor dieser aus der Spule genommen wird. 2. Auf beste ZF-Kurve einstellen.
2	Detektion			T2	Auf beste S-Kurve einstellen.
3	Die Schritte 1 und 2 wiederholen, bis keine weitere Verbesserung möglich ist.				
4	Frequenzbereich	87,3 MHz	Unterste Frequenz	L3	Auf maximalen Ausgang einstellen.
5		108,3 MHz	Höchste Frequenz	TC2	
6	Die Schritte 4 und 5 wiederholen, bis keine weitere Verbesserung möglich ist.				
7	Gleichlauf	88 MHz	88 MHz	L2	Auf maximalen Ausgang einstellen.
8		108 MHz	108 MHz	TC1	
9	Die Schritte 7 und 8 wiederholen, bis keine weitere Verbesserung möglich ist.				

EINSTELLUNG DER VCO-FREQUENZ

SIGNAL-GENERATOR	400 Hz, 30%, UKW-Modulation (Mono-Signal)		
FREQUENZ	**SKALENZEIGEREINSTELLUNG**	**EINSTELLUNG**	**BEMERKUNGEN**
"FM mono" einstellen		"FM stereo" einstellen (unmoduliert)	
98 MHz bei 54 dB	98 MHz	VR1	Auf 38,00 kHz ± 100 Hz einstellen.

DIE ANWEISUNG DER FREQUENZEINSTELLUNG

Um der Postverfügung Nr. 478/1981 zu entsprechen, wird der UKW-Frequenzbereich mit Hilfe der Oszillatorspule (L3-untere Eckfrequenz: 87,5 MHz) und des Oszillatortrimmers (TC2-obere Eckfrequenz: 108,0 MHz) eingestellt.

Ⓕ

RÉGLAGE DE FI/RF FM

POSITION DU COMMUTATEUR		Commutateur de sélection de fonction: Radio Sélecteur de gammes d'ondes: FM Commutateur de mode FM: Stéréo Commande de volume: Maximum			
GÉNÉRATEUR DE SIGNAUX		400 Hz, 30%, modulé FM			
ÉTAPE	**ÉTAGE D'ESSAI**	**FRÉQUENCE**	**MISE AU POINT DE L'INDEX**	**RÉGLAGE**	**REMARQUES**
1	FI	10,7 MHz	Haute fréquence	T1	1. À l'aide d'un tournevis plat, tourner le noyau de T2 à gauche avant de le sortir de la bobine. 2. Régler sur la meilleure courbe "FI".
2	Détection			T2	Régler sur la meilleure courbe "S".
3	Refaire les étapes 1 et 2 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
4	Étendur de gamme d'ondes	87,3 MHz	Fréquence la plus basse	L3	Régler sur la sortie maximale.
5		108,3 MHz	Fréquence la plus élevée	TC2	
6	Refaire les étapes 4 et 5 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
7	Alignement	88 MHz	88 MHz	L2	Régler sur la sortie maximale.
8		108 MHz	108 MHz	TC1	
9	Refaire les étapes 7 et 8 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				

RÉGLAGE DE LA FRÉQUENCE VCO

GÉNÉRATEUR DE SIGNAUX	400 Hz, 30%, modulé FM (mono signal)		
FRÉQUENCE	**MISE AU POINT DE L'INDEX**	**RÈGLAGE**	**REMARQUES**
Position FM mono		Position FM stéréo (non modulés)	
98 MHz à 54 dB	98 MHz	VR1	Réglage sur 38,00 kHz ± 100 Hz.

Ⓔ

NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

1. For the band selector switch of the tuner circuit:
   ( ): AM mode
   Marking except for ( ): FM mode
2. For the audio circuit:
   ( ): Record mode
   Marking except for ( ): Stop mode
3. For the mechanism control circuit:
   ( ): High speed mode
   Without mark: Stop mode

- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- Parts marked with "⚠" ( ) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

Ⓓ

ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN

- Widerstände:
  Um die Einheiten der Widerstände unter-scheiden zu können, werden Symbole Wir K und M benutzt. Das Symbol K bedeutet 1000 Ohm und das Symbol M 1 000 Kiloohm; Bei Widerständen ohne Symbol handelt es sich um ohmsche Widerstände. Außerdem sind die mit "Fusible" bezeichneten Widerstände Schmelzsicherungstypen.
- Kondensatoren:
  Zum Bezeichnen der Kondensatoreinheit wird das Symbol P benutzt; dieses Symbol P bedeutet Nanofard. Die Einheit eines Kondensators ohne Symbol ist Mikrofarad. Für Elektrolytkondensatoren wird die Be-zeichnung "Kapazität/Stehspannung" benutzt.
  (CH), (TH), (RH), (UJ): Temperaturkompensation
  (ML): Mylarkondensator
  (P.P.): Polypropylentyp
- Die in den einzelnen Teilen angegebenen Spannungen werden mit einem Digitalvielfachmeßgerät zwischen dem betreffen den Teil und dem Chassis ohne Signalzuleitung gemessen.

1. Für den Wellenbereichswahlschalter der Tunerschaltung:
   ( ): MW-Betriebsart
   Kennzeichnung außer ( ): UKW-Betriebsart
2. Für die Tonschaltung:
   ( ):Aufnahme-Betriebsart
   Kennzeichnung außer ( ): Stopp-Betriebsart
3. Für die Laufwerksteuerschaltung:
   ( ): Betriebsart mit hoher Geschwindigkeit
   Ohne Kennzeichnung: Betriebsart mit Stopp

- Änderungen des schematischen Schaltplans und der Verdrahtungsseite der Leiterplatte für dieses Modell im Sinne von Verbesserungen jederzeit vorbehalten.
- Die mit ⚠ ( ) bezeichneten Teile sind besonders wichtig für die Aufrechterhaltung der Sicherheit. Beim Wechseln dieser Teile sollten die vorgeschriebenen Teile immer verwendet werden, um sowohl die Sicherheit als auch die Leistung des Gerätes aufrechtzuerhalten.

Ⓕ

REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE

- Résistance:
  Pour différencier les unités de résistances, on utilise des symbole tels que K et M: le symbole K signifie 1000 ohms, le symbole M 1000 Kohms, et la résistance donnée sans symbole est une résistance de type ohm. En outre, celle qui est dotées de "Fusible" est de type à fusible.
- Condensateur:
  Pour indiquer l'unité de condensateur, on utilise le symbole P; ce symbole P signifie micro-microfarad, et l'unité de condensateur donnée sans ce symbole est le microfarad. En ce qui concerne le condensateur électrolytique, on utilise l'expression "tension de régime/capacité".
  (CH), (RH), (TH), (UJ): Compensation de température
  (ML): Condensateur Mylar
  (P.P.): Type Polypropylène
- La tension indiquée dans chaque section est celle mesurée par un multimètre numérique entre la section en question et le châssis, en l'absence de tout signal.

1. Pour le commutateur de sélecteur de gamme d'ondes du circuit de tuner:
   ( ): Mode AM
   Marquage sauf pour ( ): Mode FM
2. Pour le circuit audio:
   ( ):Mode d'enregistrement
   Marquage sauf pour ( ): Mode d'arrêt
3. Pour le circuit de coutrôle de mécanisme:
   ( ): Mode grande vitesse
   Sans marque: Mode d'arrêt

- Le diagramme schématique et le côté câblage de la PMI de ce modèle sont sujets à modifications sans préavis pour l'amélioration de ce produit.
- Les pièces portant la marque ⚠ ( ) sont particulièrement importantes pour le maintien de la sécurité. S'assurer de les remplacer par des pièces du numéro de pièce spécifié pour maintenir la sécurité et la performance de l'appareil.

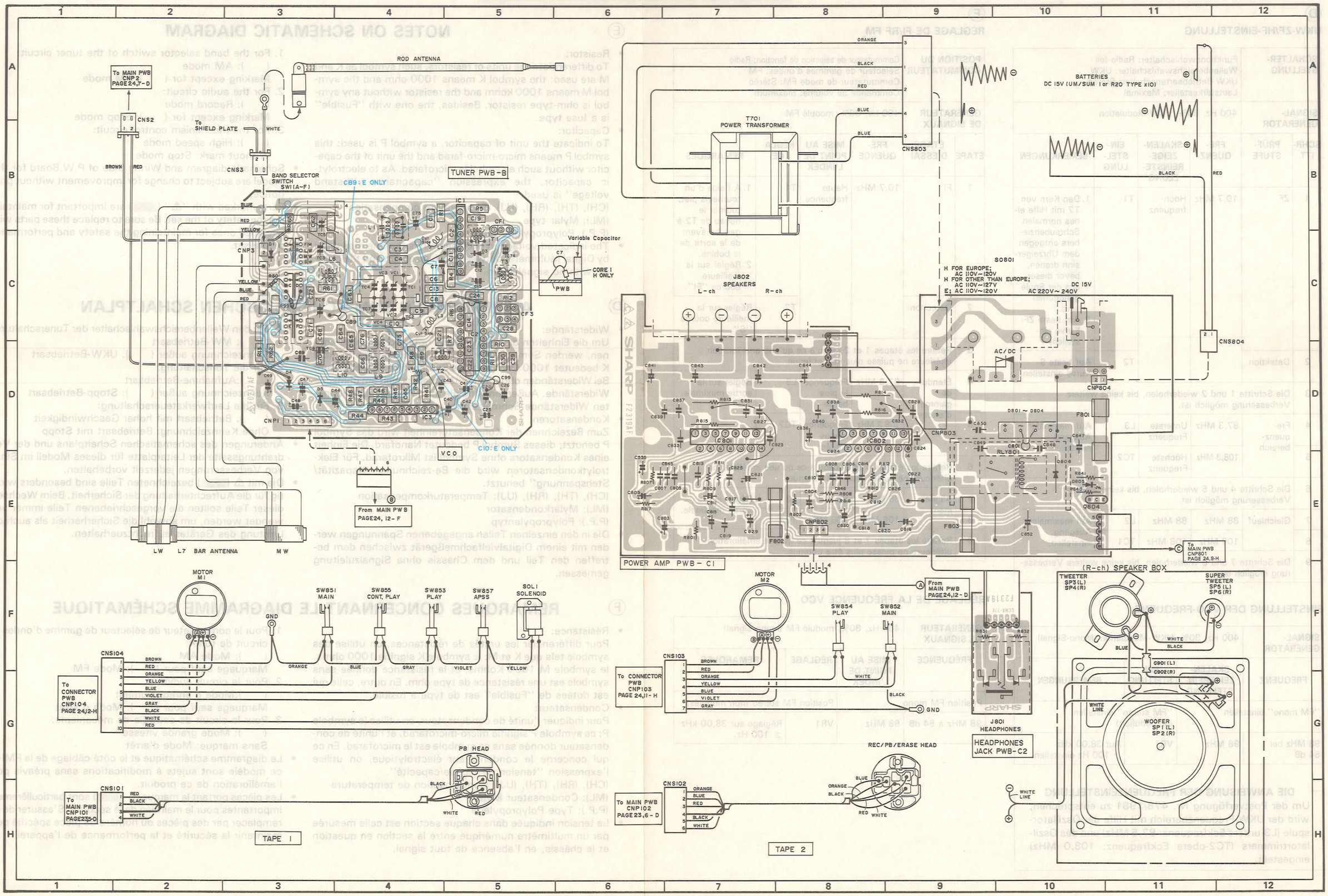


Figure 19 WIRING SIDE OF P.W.BOARD

TUNER PWB-B

POWER AMP PWB-C1

HEADPHONES JACK PWB-C2

SPEAKER

MAIN PWB-A1 (DOLBY)

TIMER PWB-A3

- NOTES ON SCHEMATIC DIAGRAM can be found on page 18.
- ANMERKUNGEN ZUM SCHEMATISCHEN SHALTPLAN stehen auf Seite 18.
- REMARQUES CONCERNANT LE DIAGRAMME SCHEMATIQUE sont indiquées à la page 18.

+ B FM Signal MW/LW/SW Signal

Figure 21 SCHEMATIC DIAGRAM

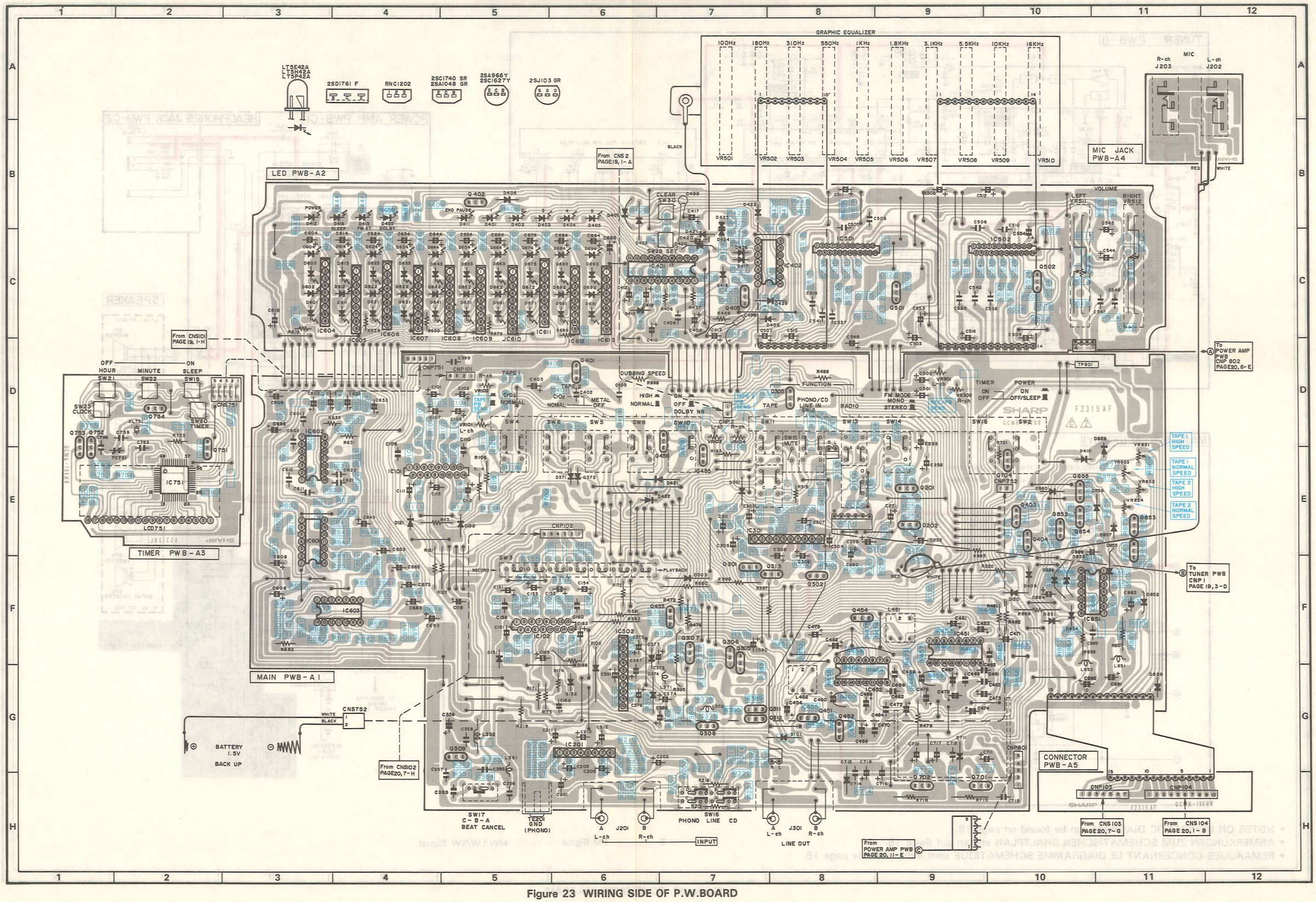
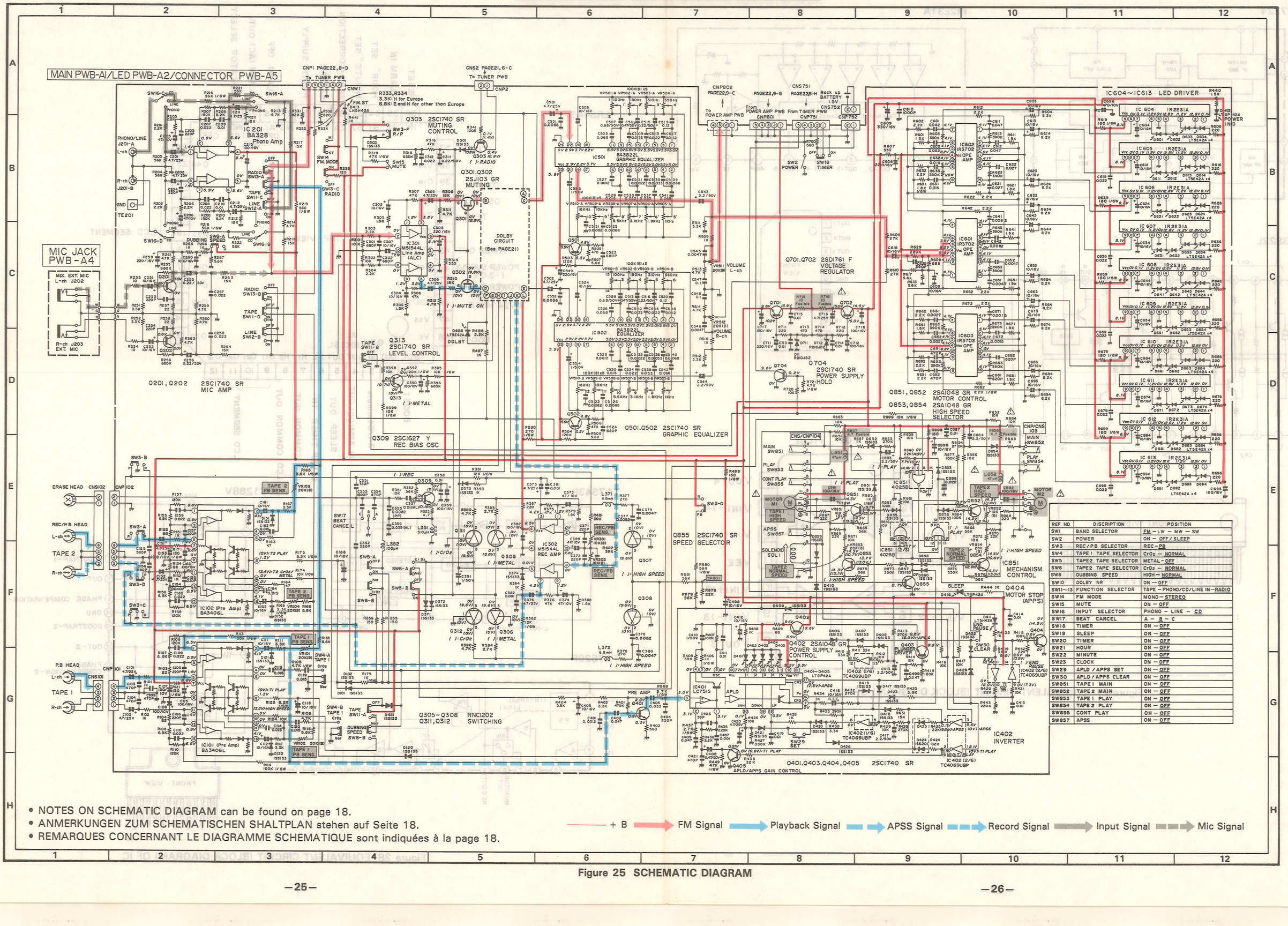
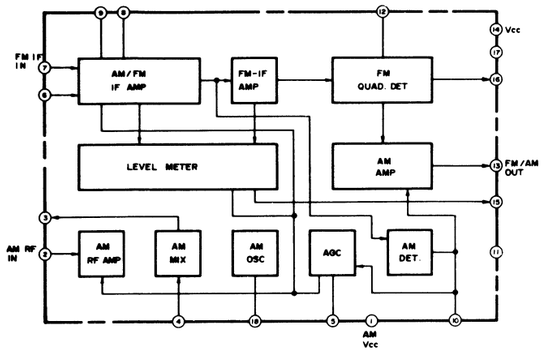


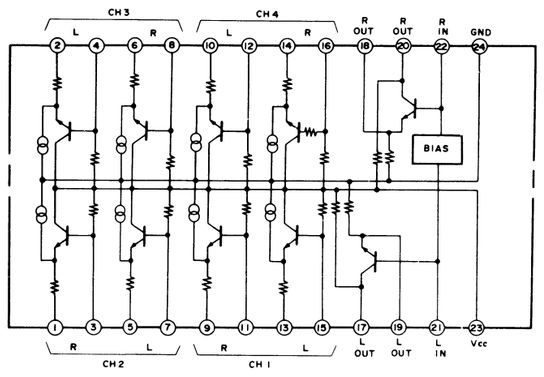
Figure 23 WIRING SIDE OF P.W.BOARD

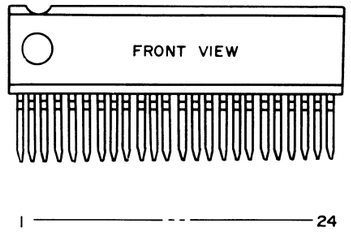

MAIN PWB-AI/LED PWB-A2/CONNECTOR PWB-A5
MIC JACK PWB-A4
CNP1 PAGE22,8-D
To TUNER PWB
CNS2 PAGE21,6-C
To TUNER PWB
CNP802 PAGE22,9-C
To POWER AMP PWB
PAGE22,9-G
From POWER AMP PWB
CNS751 PAGE22B-H
From TIMER PWB
Back up BATTERY 1.5V
CNP752
IC604~IC613 LED DRIVER
IC 604 IR2E31A
IC 605 IR2E31A
IC 606 IR2E31A
IC 607 IR2E31A
IC 608 IR2E31A
IC 609 IR2E31A
IC 610 IR2E31A
IC 611 IR2E31A
IC 612 IR2E31A
IC 613 IR2E31A
POWER IND
IC201 BA328 Phono Amp
IC101 (Pre Amp) BA3406L
IC102 (Pre Amp) BA3406L
Q201,Q202 2SC1740 SR MIC AMP
Q303 2SC1740 SR MUTING CONTROL
Q301,Q302 2SJ103 GR MUTING
Q313 2SC1740 SR LEVEL CONTROL
Q309 2SC1627 Y REC BIAS OSC
Q501,Q502 2SC1740 SR GRAPHIC EQUALIZER
Q305~Q308 Q311,Q312 RNC1202 SWITCHING
Q701,Q702 2SD1761 F VOLTAGE REGULATOR
Q704 2SC1740 SR POWER SUPPLY HOLD
Q851,Q852 2SA1048 GR MOTOR CONTROL
Q853,Q854 2SA1048 GR HIGH SPEED SELECTOR
Q855 2SC1740 SR SPEED SELECTOR
Q402 2SA1048 GR POWER SUPPLY CONTROL
Q404 MOTOR STOP (APPS)
Q401,Q403,Q404,Q405 2SC1740 SR APLD/APPS GAIN CONTROL
IC302 M51544L REC AMP
IC301 M51544L Line Amp (ALC)
IC401 LC7515
IC851 4025BL
IC852 4025B (2/3)
IC851 MECHANISM CONTROL
IC402 INVERTER
IC402 (2/6) TC4069UBP
IC403 IR3702
IC501 BA3822L GRAPHIC EQUALIZER
IC502 BA3822L GRAPHIC EQUALIZER
SW1 BAND SELECTOR
SW2 POWER
SW16 INPUT SELECTOR
SW18 TIMER
SW17 BEAT CANCEL
SW3 REC/PB SELECTOR
SW4 TAPE1 TAPE SELECTOR
SW5 TAPE2 TAPE SELECTOR
SW6 DUBBING SPEED
SW10 DOLBY NR
SW11 FUNCTION SELECTOR
SW14 FM MODE
SW15 MUTE
SW30 CLEAR
SW29 SET
DOLBY CIRCUIT (See PAGE21)
TAPE 2 PB SENS.
TAPE 1 PB SENS.
REC/PB SENS.
ERASE HEAD
REC/PB HEAD
TAPE 2
TAPE 1
PHONO/LINE J201-A
R-ch J201-B
GND
TE201
MIC EXT. MIC L-ch J202
R-ch J203 EXT. MIC
CNP102
CNS102
CNP101
CNS101
CNP/CNS103
CNS/CNP104
MAIN SW852
PLAY SW854
MAIN SW851
PLAY SW853
CONT PLAY SW855
APSS SW857
SOLENOID SOL1
MOTOR M1
MOTOR M2
TAPE1 HIGH SPEED
TAPE2 HIGH SPEED
TAPE1 NORMAL SPEED
TAPE2 NORMAL SPEED
SLEEP
END
PAUSE
PRE AMP
APLD
INVERTER
R440 1.5K 1/2W
R999 10K 1/6W
R998 2.7K 1/6W
R499 150 1/6W
R883 10K 1/6W
R852 10K
R854 10K
R856 10K
R858 10K
R888 1K
R887 4.7 Fusible 1W
R889 10K 1/6W
R898 180
R899 27 1/6W
R897 100K
R884 10K
R885 10K
R886 220
R887 4.7 Fusible 1W
R888 1K

AN7224

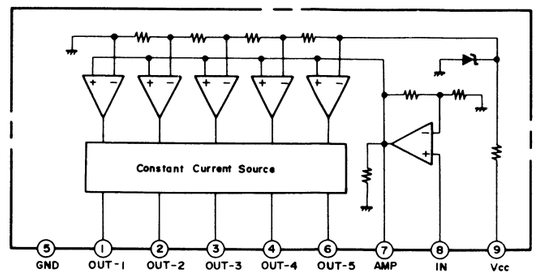


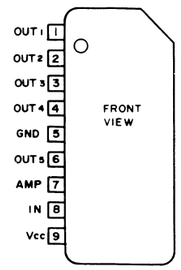
BA3822L



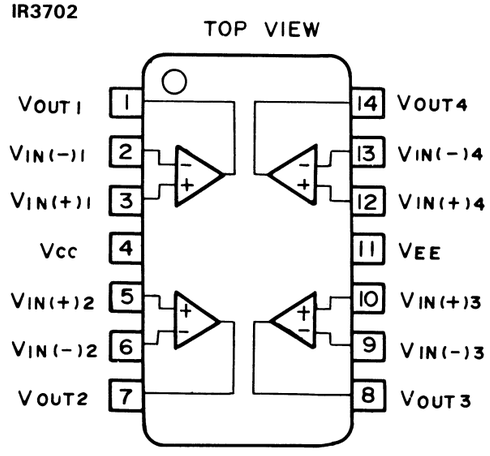


IR2E31A

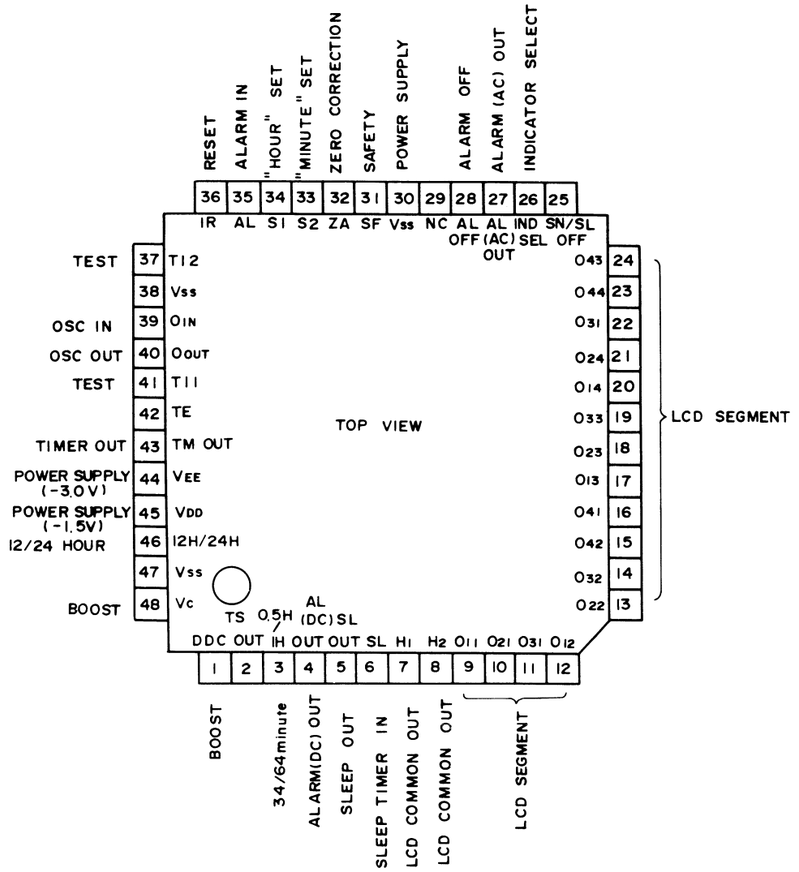




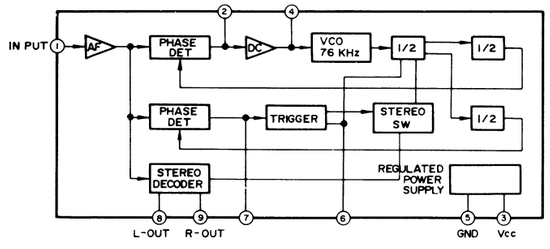
IR3702



LR3441



TA7343P



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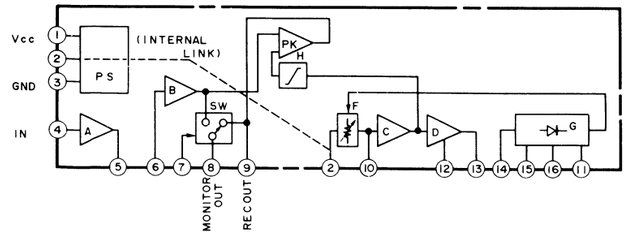


μPC1288V

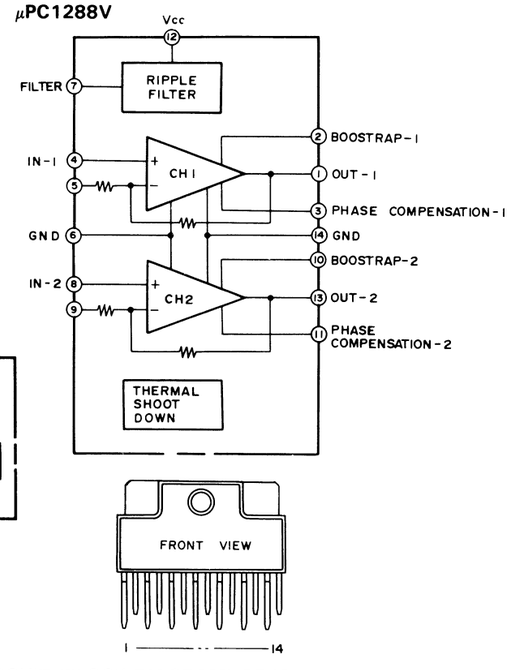


Figure 27 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

Figure 28 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

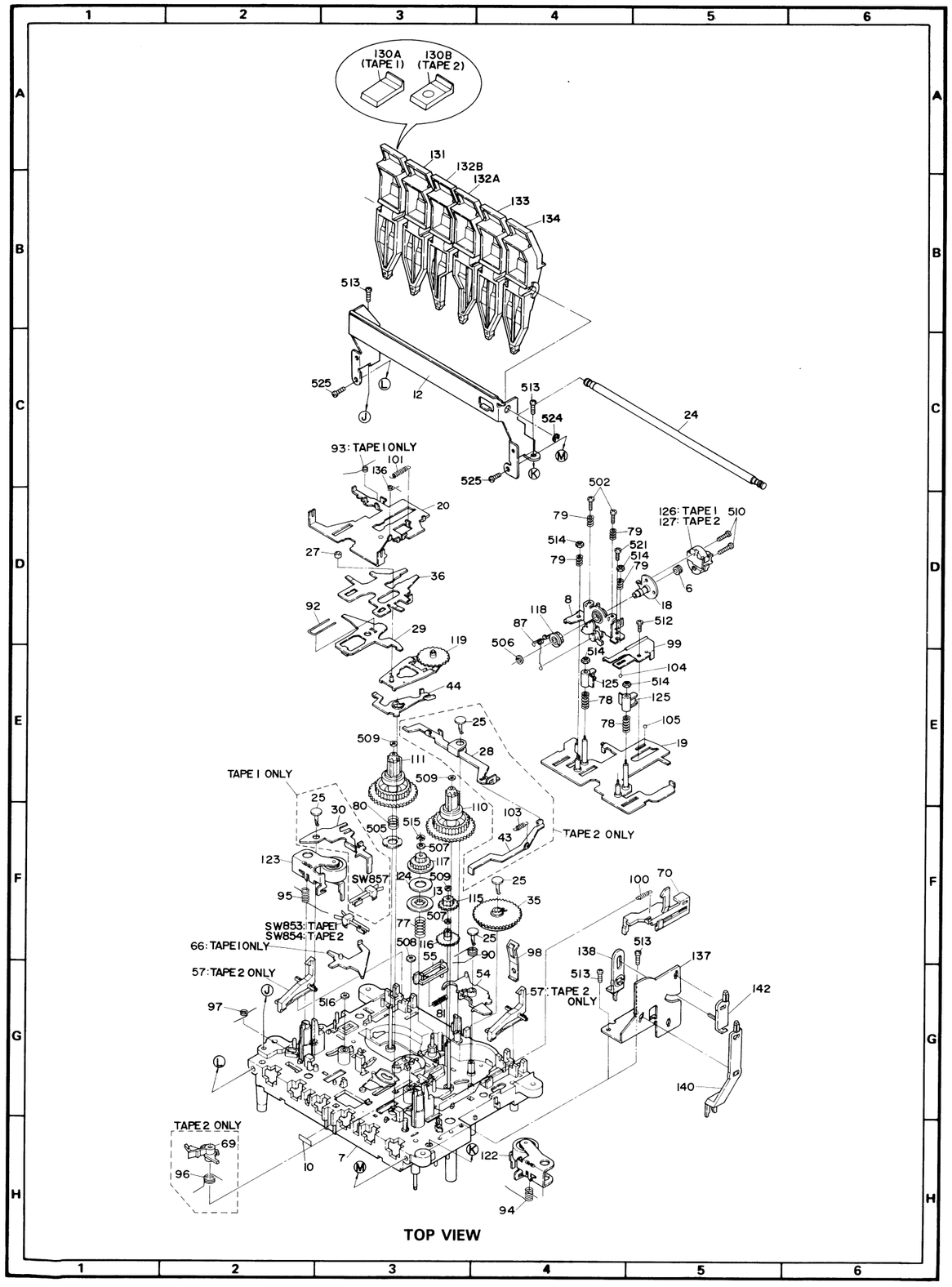


Figure 29 MECHANISM EXPLODED VIEW

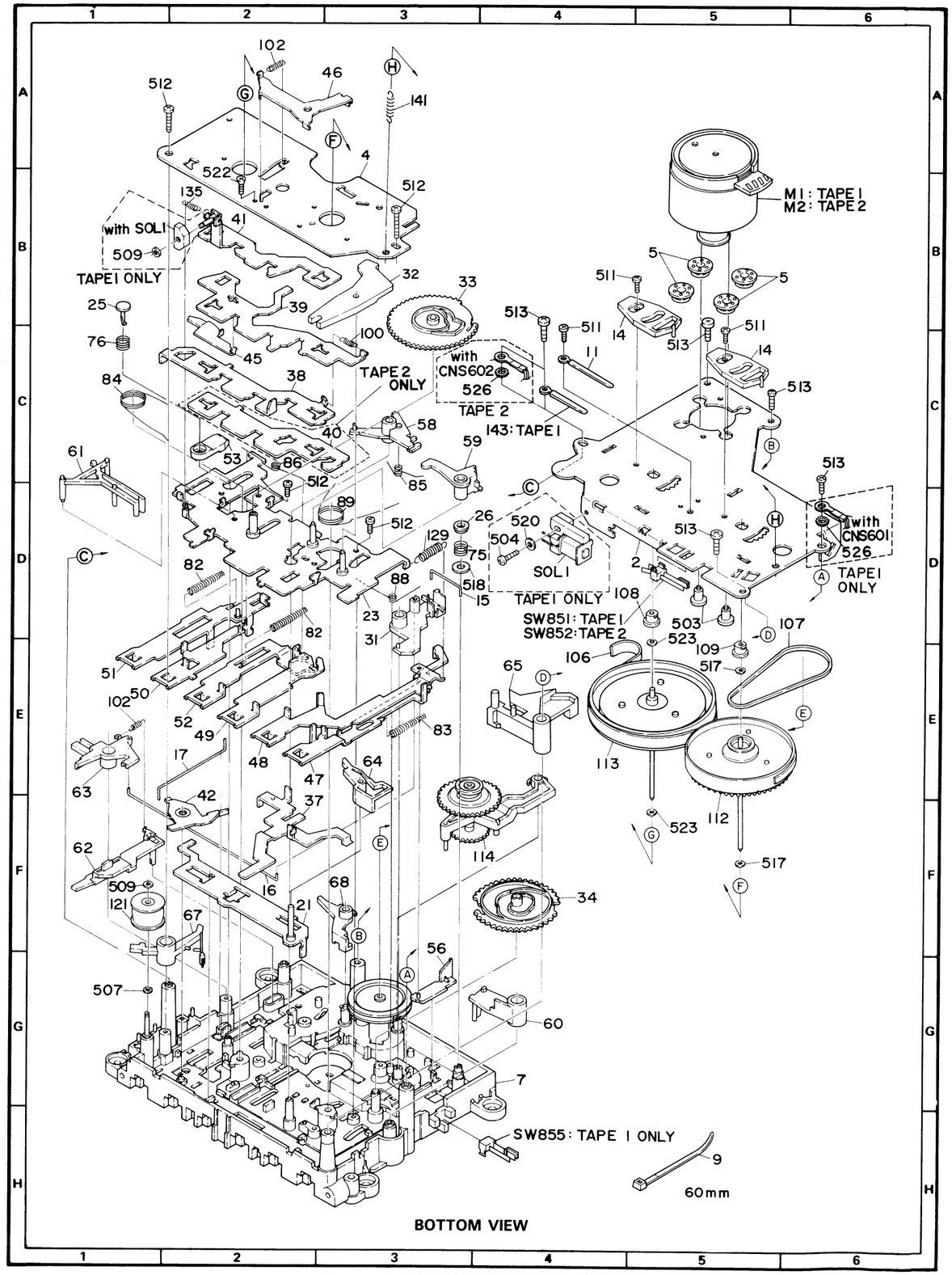


Figure 30 MECHANISM EXPLODED VIEW

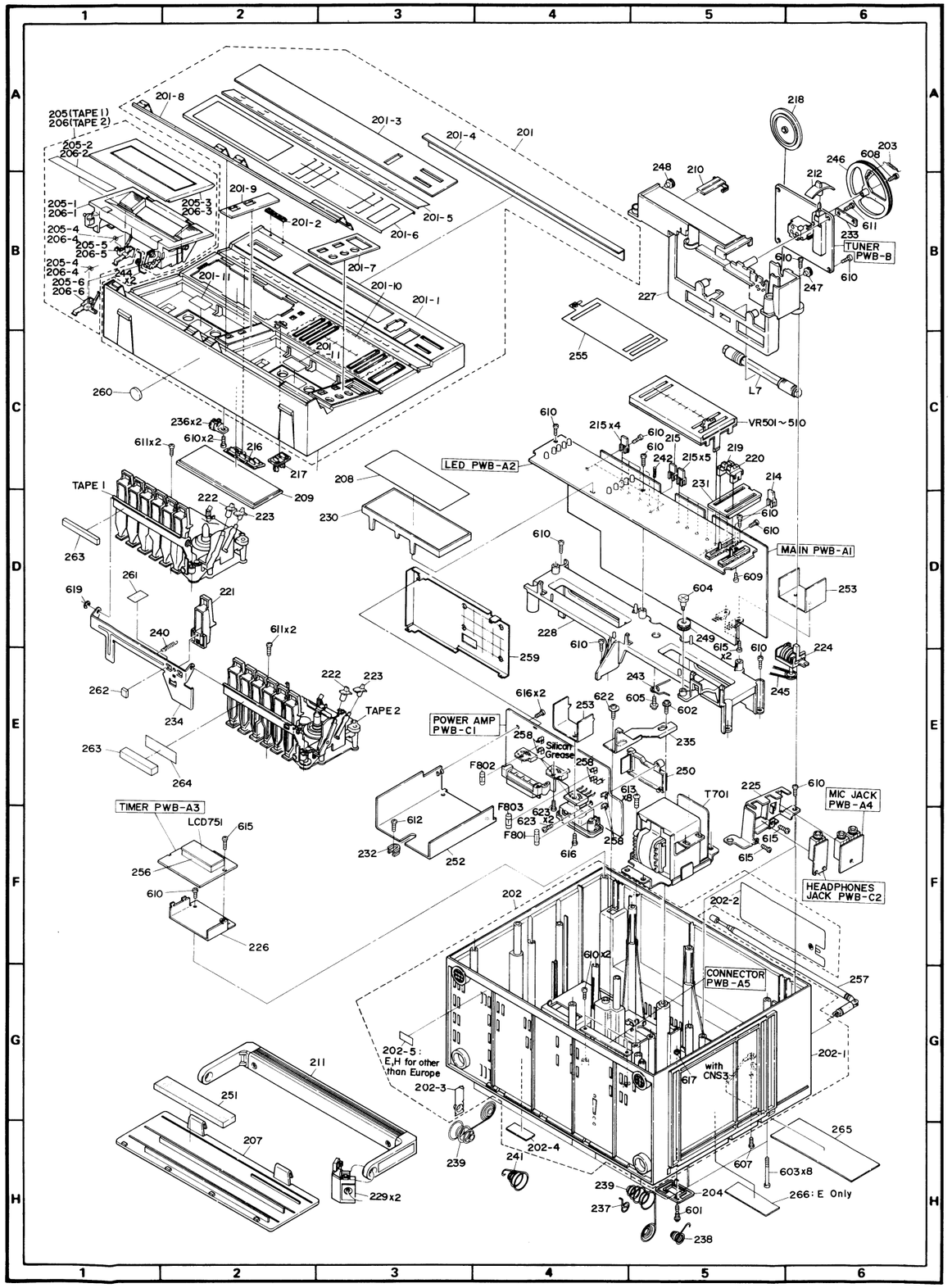


Figure 31 CABINET EXPLODED VIEW

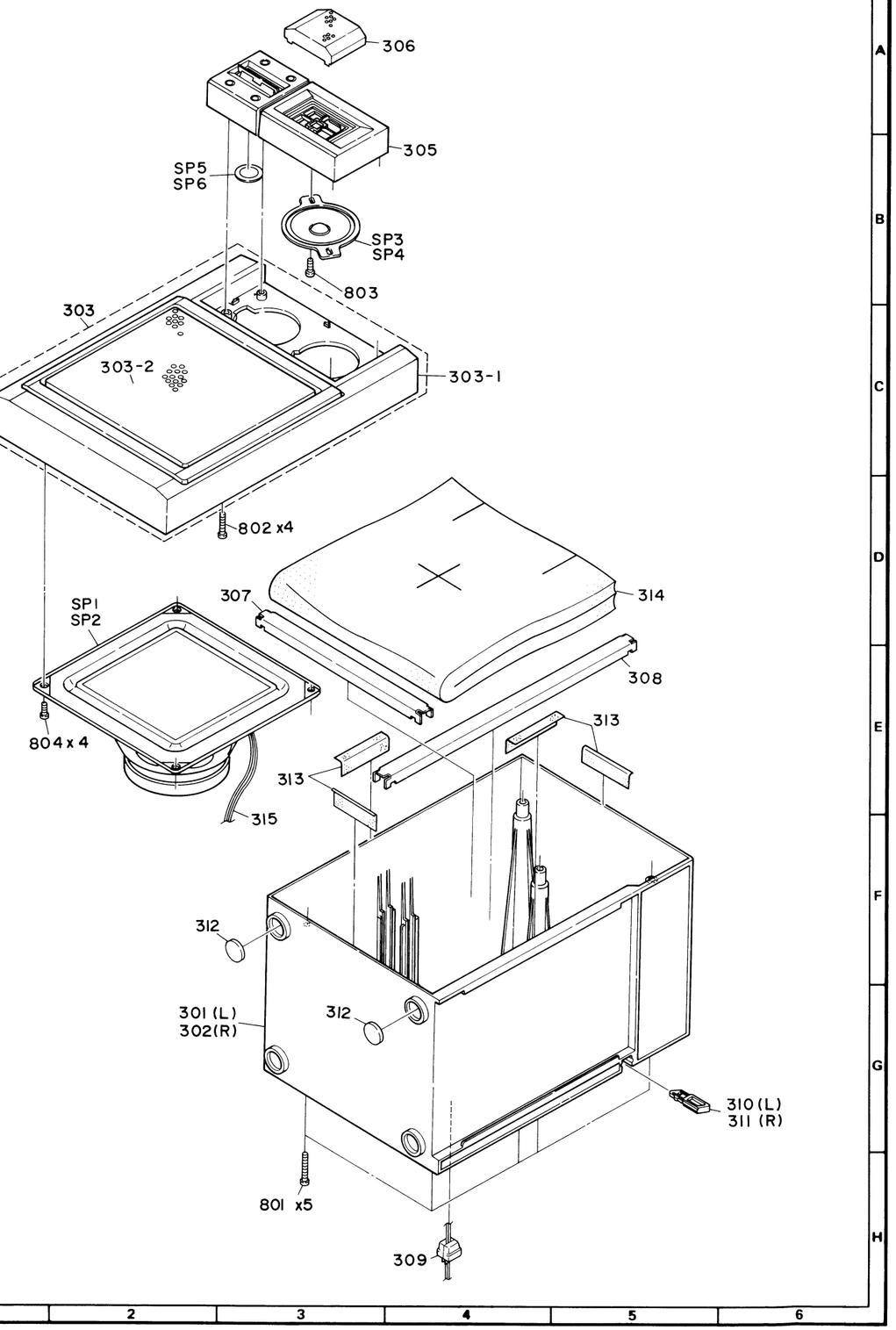
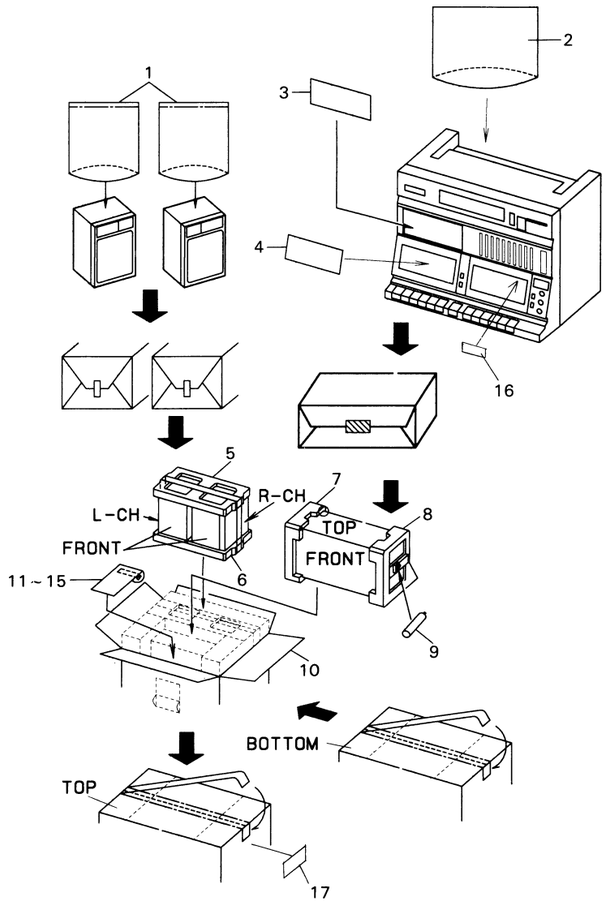


Figure 32 SPEAKER EXPLODED VIEW

PACKING METHOD (WF-940E ONLY)

SETTING POSITIONS OF SWITCHES AND KNOBS	
Tuning Control Knob	Get it back half a turn from high extreme position.
Band Selector Switch	MW
Function Selector Switch	TAPE
Volume Control	MIN
Beat Cancel Switch	A
Reverse Mode Switch	⇄
Tape Counter	000
Graphic Equalezer Knob	0 (Center)
FM Mode Switch	STEREO
Power Switch	OFF
Timer Switch	OFF
Input Selector Switch	LINE IN
Tape1 Tape Selector Switch	NORMAL
Tape2 Tape Selector Switches	NORMAL and OFF
Dolby NR Switch	OFF

1.	Polyethylene Bag.	SPAKP0702AFZZ
2.	Polyethylene Bag.	SPAKP0711AFZZ
3.	Spectrum Analyzer Label	TLBAZ0893AFZZ
4.	Tape1 Label	TLABZ0953AFZZ
5.	Packing Add., Top	SPAKA1635AFZZ
6.	Packing Add., Bottom	SPAKA1636AFZZ
7.	Packing Add., Left	SPAKA1671AFZZ
8.	Packing Add., Right	SPAKA1634AFZZ
9.	Battery	UBATU0008AGZZ
10.	Packing Case	SPAKC4075AFZZ
11.	Operation Manual	TiNSE1200AFZZ
12.	AC Power Supply Cord	QACCB0061AF09
13.	Caution Label	TCAUH0056AGZZ
14.	Warranty Card	TGANE1117AFZZ
15.	Polyethylene Bag	SSAKA0035AFZZ
16.	MADE IN JAPAN Label	TLABJ0006AFZZ
17.	Dubbing Caution Label	TCAUH0352AFZZ



Ⓔ REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.
1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

Ⓓ ERSATZTEILLISTE

"BESTELLEN VON ERSATZTEILEN"

Um Ihren Auftrag schnell und richtig ausfuhren zu können, bitten wir um die folgenden Angaben.
1. MODELLNUMMER
2. REF. NR.
3. TEIL NR.
4. BESCHREIBUNG

ANMERKUNGEN:
Die mit ⚠ bezeichneten Teile sind besonders wichtig fur die Aufrechterhaltung der Sicherheit. Beim Wechseln dieser Teile sollten die vorgeschriebenen Teile immer verwendet werden, um sowohl die Sicherheit ais auch die Leistung des Gerätes aufrechtzuerhalten.

Ⓕ LISTE DES PIÈCES DE RECHANGE

"COMMENT COMMANDER DES PIÈCES DE RECHANGE"

Pour voir votre commande exécutée de manière rapide et correcte, veuillez fournir les renseignements suivants.
1. NUMÉRO DU MODÈLE
2. N° DE RÉFÉRENCE
3. N° DE LA PIÈCE
4. DESCRIPTION

NOTE:
Les pièces portant la marque ⚠ sont particulièrement importantes pour le maintien de la securité. S'assurer de les remplacer par des pièces du numéro de pièce spécifié pour maintenir la sécurité et la performance de l'appareil.

INTEGRATED CIRCUITS

REF.NO.	PART NO.	DESCRIPTION	CODE
IC1	VHiBA4402//-1	FM Front End,BA4402	A F
IC2	VHiAN7224//-1	FM IF/AM Circuit,AN7224	A H
IC3	VHiTA7343P/-1	PLL FM MPX.,TA7343P	A G
IC101,102	VHiBA3406L/-1	Pre Amp.,BA3406L	A F
IC201	RH-iX1116AFZZ	Phono Amp,BA328	A G
IC301	VHiM51544AL-1	Line Amp.,M51544AL	A G
IC302	VHiM51544AL-1	Record Amp.,M51544AL	A G
IC401	VHiLC7515//-1	APLD,LC7515	A H
IC402	RH-iX1154AFZZ	Inverter,TC4069UBP	A E
IC451,452	VHiTA7629P/-1	Dolby NR Circuit,TA7629P	A H
IC501,502	VHiBA3822L/-1	Graphic Equalizer,BA3822L	A G
IC601~603	VHiiR3702//-1	Operational Amp.,IR3702	A H
IC604~613	VHiiR2E31A/-1	LED Driver,IR2E31A	A F
IC751	VHiLR3441//-1	Clock LSI,LR3441	A N
IC801,802	VHiUPC1288V-1	Power Amp.,μPC1288V	A L
IC851	RH-iX1150AFZZ	Mechanism Control,4025B	A E

TRANSISTORS

Q201,202	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q301,302	VS2SJ103GR/-1	FET,2SJ103 GR	A C
Q303	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q305,306	VSRNC1202//-1	Digital,NPN,RNC1202	A B
Q307,308	VSRNC1202//-1	Digital,NPN,RNC1202	A B
Q309	VS2SC1627Y/-1	Silicon,NPN,2SC1627 Y	A D
Q311,312	VSRNC1202//-1	Digital,NPN,RNC1202	A B
Q313	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q401	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q402	VS2SA1048GR-1	Silicon,PNP,2SA1048 GR	A B
Q403~405	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q451,452	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q453~456	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q501,502	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q701,702	VS2SD1761F/-1	Silicon,NPN,2SD1761 F	A D
Q704	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q751,752	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q753,754	VS2SA1048GR-1	Silicon,PNP,2SA1048 GR	A B
Q804	VS2SA966-Y/-1	Silicon,PNP,2SA966 Y	A D
Q851,852	VS2SA1048GR-1	Silicon,PNP,2SA1048 GR	A B
Q853,854	VS2SA1048GR-1	Silicon,PNP,2SA1048 GR	A B
Q855	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B

DIODES

D1,3	VHD1S2076//-U	Silicon,1S2076	A B
D4,5	VHD1S2076//-U	Silicon,1S2076	A B
D101,102	VHD1SS133//-1	Silicon,1SS133	A A
D120~122	VHD1SS133//-1	Silicon,1SS133	A A
D151,152	VHD1SS133//-1	Silicon,1SS133	A A
D301,303	VHD1SS133//-1	Silicon,1SS133	A A
D371~374	VHD1SS133//-1	Silicon,1SS133	A A
D401~405	VHPLT5P42A/-1	LED,Red,LT5P42A	A B
D406~410	VHD1SS133//-1	Silicon,1SS133	A A
D411	VHPLT5H42A/-1	LED,Orange,LT5H42A	A B
D412,413	VHPLT5P42A/-1	LED,Red,LT5P42A	A B
D416,418	VHPLT5P42A/-1	LED,Red LT5P42A	A B
D417,418	VHD1SS133//-1	Silicon,1SS133	A A
D419	VHD1SS133//-1	Silicon,1SS133	A A
D420~423	VHD1SS133//-1	Silicon,1SS133	A A
D424/425	VHD1SS201//-1	Silicon,1SS201	A B
D426,429	VHD1SS133//-1	Silicon,1SS133	A A
D451	VHD1SS133//-1	Silicon,1SS133	A A
D452	VHD1SS133//-1	Silicon,1SS133	A A
D455	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D601~604	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D611~614	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D621~624	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D631~634	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D641~644	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D651~654	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D661~664	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D671~674	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D681~684	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D691~694	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D711	VHERD100JB2-1	Zener,10V,RD10JB2	A B
D712	VHERD160JB2-1	Zener,16V,RD16JB2	A A
⚠D801~804	VHD4G4B44//-1	Bridge,4G4B44	A G
D805	VHPLT5P42A/-1	LED,Red,LT5P42A	A B
D806	VHD11E4TA2/-1	Silicon,11E4	A B
D851~856	VHD1SS133//-1	Silicon,1SS133	A A
D857,858	VHD1SS133//-1	Silicon,1SS133	A A
D859	VHD1SS133//-1	Silicon,1SS133	A A
D860	VHD1SS133//-1	Silicon,1SS133	A A

FILTERS

CF1	RFiLF0080AFZZ	Ceramic,FM IF,10.7MHz	A D
CF3	RFiLA0085AFZZ	Ceramic,AM IF,455kHz,H	A E

REF.NO.	PART NO.	DESCRIPTION	CODE
CF3	RFiLA0086AFZZ	Ceramic,AM IF,468kHz,E	A E
	TRANSFORMERS		
T1	RCiLi0324AFZZ	FM IF	A C
T2	RCiLi0312AFZZ	FM Detector	A C
T3	RCiLi0310AFZZ	AM IF	A C
⚠T701	RTRNP1249AFZZ	Power	A Z
	COILS		
L1	RCiLA0620AFZZ	FM Band Pass Filter	A C
L2	RCiLB0672AFZZ	FM RF	A C
L3	RCiLB0672AFZZ	FM Oscillator	A C
L6	RCiLA0562AFZZ	SW Antenna	A C
L7	RCiLA0819AFZZ	MW/LW Bar Antenna	A M
L8	RCiLB0629AFZZ	SW Oscillator	A C
L9	RCiLB0623AFZZ	MW Oscillator	A C
L10	RCiLB0627AFZZ	LW Oscillator	A C
L351	RCiLF0072AFZZ	Bias Oscillator,510 μH	A C
L352	VP-DH101K0000	100 μH,Choke	A B
L371,372	RCiLZ0104AFZZ	6.8 mH	A C
L451,452	RCiLL0084AFZZ	Dolby NR	A F
⚠L851,852	RCiLF0014AGZZ	47 μH,Choke	A B
	CONTROLS		
TC3	RTō-H1072AFZZ	Trimmer,SW Antenna	A C
TC5	RTō-H1072AFZZ	Trimmer,LW Antenna	A C
TC6	RTō-H1072AFZZ	Trimmer,SW Oscillator	A C
TC8	RTō-H1067AFZZ	Trimmer,LW Oscillator E	A D
TC8	RTō-H1072AFZZ	Trimmer,LW Oscillator,H	A C
TC751	RTō-H1067AFZZ	Trimmer,11 pF	A D
VC1～4	RVC-R0083AFZZ	Variable Capacitor With Trimmers	A N
VR1	RVR-M0390AFZZ	5 kohms (B)	A B
VR101～104	RVR-M0465AFZZ	20 kohms (B)	A B
VR301,302	RVR-M0464AFZZ	10 kohm (B)	A B
VR501～510	RVR-Z0222AFZZ	100 kohm (B)×10	A Y
VR511,512	RVR-Q0158AFZZ	20 kohms (B)	A F
VR851,852	RVR-M0464AFZZ	10 kohm (B)	A B
VR853,854	RVR-M0465AFZZ	20 kohms (B)	A B
	CRYSTAL		
XL751	RCRSP0051AFZZ	32.768 kHz	A K
	ELECTROLYTIC CAPACITORS		
(All electrolytic capacitors are ±20% type.)			
C12	RC-EZA336AF1C	33 μF,16V	A A
C15	RC-EZA106AF1C	10 μF,16V	A B
C20	RC-EZA476AF1A	47 μF,10V	A A
C25	RC-EZA107AF1A	100 μF,10V	A B
C26	RC-EZA475AF1E	4.7 μF,25V	A B
C40	RC-EZA106AF1C	10 μF,16V	A B
C41	RC-EZA335AF1H	3.3 μF,50V	A A
C42	RC-EZA105AF1H	1 μF,50V	A A
C44	RC-EZA475AF1E	4.7 μF,25V	A B
C47,48	RC-EZA105AF1H	1 μF,50V	A A
C49	RC-EZA227AF1A	220 μF,10V	A B
C74	RC-EZA106AF1C	10 μF,16V	A B
C75	RC-EZA476AF1A	47 μF,10V	A A
C101,102	RC-GZA475AF1E	4.7 μF,25V	A A
C107,108	RC-GZA107AF1A	100 μF,10V	A C
C111,112	RC-GZA106AF1C	10 μF,16V	A A
C115	RC-GZA107AF1C	100 μF,16V	A B
C118	RC-GZA106AF1C	10 μF,16V	A A
C151,152	RC-GZA475AF1E	4.7 μF,25V	A A
C153,154	RC-GZA107AF1A	100 μF,10V	A C
C161,162	RC-GZA106AF1C	10 μF,16V	A A
C165	RC-GZA107AF1C	100 μF,16V	A B
C166	RC-GZA106AF1C	10 μF,16V	A A
C201,202	RC-GZA475AF1E	4.7 μF,25V	A A
C205,206	RC-GZA476AF1A	47 μF,10V	A A
C211,212	RC-GZA475AF1E	4.7 μF,25V	A A
C213	RC-GZA107AF1C	100 μF,16V	A B
C251	RC-EZV106AF1C	10 μF,16V	A B
C252	RC-GZA106AF1C	10 μF,16V	A A
C255,256	RC-GZA224AF1H	0.22 μF,50V	A A
C259	RC-GZA227AF1C	220 μF,16V	A B
C260	RC-GZA107AF1C	100 μF,16V	A B
C303,304	RC-GZA106AF1C	10 μF,16V	A A
C305,306	RC-GZA475AF1E	4.7 μF,25V	A A
C307	RC-GZA106AF1C	10 μF,16V	A A
C308	RC-GZA227AF1C	220 μF,16V	A B
C311	RC-GZA224AF1H	0.22 μF,50V	A A
C359	RC-GZA107AF1C	100 μF,16V	A B
C373,374	RC-GZA476AF1A	47 μF,10V	A A
C375,376	RC-GZA475AF1E	4.7 μF,25V	A A
C387	RC-GZA107AF1C	100 μF,16V	A B
C389	RC-GZA476AF1A	47 μF,10V	A A
C390	RC-GZA107AF1A	100 μF,10V	A C
C391	RC-EZY105AF1H	1 μF,50V	A B
C403	RC-EZY106AF1C	10 μF,16V	A B
C408	RC-GZA474AF1H	0.47 μF,50V	A A
C410	RC-GZA105AF1H	1 μF,50V	A A
C412	RC-EZY106AF1C	10 μF,16V	A B
C413	RC-GZA225AF1H	2.2 μF,50V	A A
C417	RC-EZY225AF1H	2.2 μF,50V	A B
C418	VCEALA1CW106M	10 μF,16V	A B
C420	RC-EZY475AF1E	4.7 μF,25V	A B
C451,452	RC-GZA474AF1H	0.47 μF,50V	A A
C453,454	RC-GZA105AF1H	1 μF,50V	A A
C457	RC-EZV104AF1H	0.1 μF,50V	A B
C458	RC-GZA104AF1H	0.1 μF,50V	A A
C459,460	RC-GZA334AF1H	0.33 μF,50V	A A
C467,468	RC-GZA106AF1C	10 μF,16V	A A
C471,472	RC-GZA475AF1E	4.7 μF,25V	A A
C473,474	RC-GZA106AF1C	10 μF,16V	A A
C475	RC-GZV108AF1A	1000 μF,10V	A D
C476	RC-GZA227AF1C	220 μF,16V	A B
C498	RC-EZS106AF1C	10 μF,16V	A B
C501,502	RC-EZY475AF1E	4.7 μF,25V	A B
C503	RC-GZA106AF1C	10 μF,16V	A A
C504	RC-EZY106AF1C	10 μF,16V	A B
C507,508	RC-EZY684AF1H	0.68 μF,50V	A B
C511,512	RC-EZY474AF1H	0.47 μF,50V	A B
C515,516	RC-EZY224AF1H	0.22 μF,50V	A B
C543,544	RC-EZY225AF1H	2.2 μF,50V	A B
C549	RC-GZA227AF1C	220 μF,16V	A B
C553,554	RC-EZY105AF1H	1 μF,50V	A B
C603	RC-GZA106AF1C	10 μF,16V	A A
C604	RC-EZY106AF1C	10 μF,16V	A B
C606	RC-GZA227AF1C	220 μF,16V	A B
C608	RC-GZA106AF1C	10 μF,16V	A A
C609	RC-GZA337AF1C	330 μF,16V	A C
C613	RC-GZA106AF1C	10 μF,16V	A A
C614,618	RC-EZY106AF1C	10 μF,16V	A B
C623	RC-GZA106AF1C	10 μF,16V	A A
C624	RC-EZY106AF1C	10 μF,16V	A B
C633	RC-GZA106AF1C	10 μF,16V	A A
C634	RC-EZY106AF1C	10 μF,16V	A B
C643	RC-GZA106AF1C	10 μF,16V	A A
C644	RC-EZY106AF1C	10 μF,16V	A B
C653	RC-GZA106AF1C	10 μF,16V	A A
C654	RC-EZY106AF1C	10 μF,16V	A B
C663	RC-GZA106AF1C	10 μF,16V	A A
C664	RC-EZY106AF1C	10 μF,16V	A B
C673	RC-GZA106AF1C	10 μF,16V	A A
C674	RC-EZY106AF1C	10 μF,16V	A B
C683	RC-GZA106AF1C	10 μF,16V	A A
C684	RC-EZY106AF1C	10 μF,16V	A B
C693	RC-GZA106AF1C	10 μF,16V	A A
C694	RC-EZY106AF1C	10 μF,16V	A B
C695	RC-EZY107AF1C	100 μF,16V	A B
C696	RC-GZA477AF1A	470 μF,10V	A C
C711	RC-GZA227AF1C	220 μF,16V	A B
C712	RC-GZA107AF1C	100 μF,16V	A B
C716	RC-EZY475AF1E	4.7 μF,25V	A B
C717,718	RC-GZA107AF1C	100 μF,16V	A B
C803,804	RC-GZA335AF1H	3.3 μF,50V	A A
C809～812	RC-GZA107AF1E	100 μF,25V	A B
C815,816	RC-GZA226AF1E	22 μF,25V	A B
C821,822	RC-GZV477AF1E	470 μF,25V	A C
C829,830	RC-GZA107AF1E	100 μF,25V	A B
C835,836	RC-GZA107AF1E	100 μF,25V	A B
C841～844	RC-GZV228AF1C	2200 μF,16V	A G
C852	RC-GZW478AF1E	4700 μF,25V	A G
⚠C881,882	RC-EZY107AF1C	100 μF,16V	A B
C883	RC-EZY225AF1H	2.2 μF,50V	A B
C884	RC-GZA225AF1H	2.2 μF,50V	A A
C899	RC-GZA106AF1C	10 μF,16V	A A
C901,902	VCE9AT1VC475M	4.7 μF,35V,Non-polar	A D

CAPACITORS

There are two types of capacitors available and they can be identified from each other by reading their Part Numbers.

- Ceramic type capacitor;
  A symbol "C" or "K" is given at the 3rd digit of its Part Number like "VCC (or K)·····J."
- Semiconductor type capacitor;
  A symbol "T" is given at the 3rd digit of its Part Number like "VCT·····J."

The capacitance error of each capacitor is indicated by the symbol given at the 13th digit of the Part Number as follows:"J" (±5%), "K" (±10%), "M" (±20%), "N" (±30%), "C" (±0.25 pF), "D" (±0.5 pF), "Z" (+80−20%).
(Tubular type ceramic capacitor is identified by the symbol MF of the part NO. VC00MF0000000; this MF does not mean the lead wire.)

C1	VCCSMF1HL100J	10 pF,50V	A A
C2,3	VCTYMF1HV472K	0.0047 μF,50V	A A
C4	VCCCMF1HH240J	24 pF (CH),50V	A A
C6	VCCCMF1HH150J	15 pF (CH),50V	A A
C7	VCCCPU1HH100D	10 pF (CH),50V	A A
C8	VCTYMF1HV152K	0.0015 μF,50V	A A
C9	VCCRMF1HH100J	10 pF (RH),50V	A A
C10	VCCCMF1HH3R9C	3.9 pF (CH),50V,E Only	A A
C11	VCCCMF1HH1R0C	1 pF (CH),50V	A A
C13,14	VCTYMF1CY223N	0.022 μF,16V	A A
C19	VCTYMF1EX103N	0.01 μF,25V	A A
C21,22	VCTYMF1CY223N	0.022 μF,16V	A A
C23	VCKYMF1HB221K	220 pF,50V	A A
C24	VCTYMF1CY223N	0.022 μF,16V	A A
C28	VCCSMF1HL470J	47 pF,50V	A A
C29,30	VCTYMF1CY223N	0.022 μF,16V	A A
C43	VCQSMA1HL102J	1000 pF,50V,Styrol	A B
C45,46	VCTYMF1CY223N	0.022 μF,16V	A A
C61	VCCSMF1HL8R2D	8.2 pF,50V	A A
C62	VCCSMF1HL680J	68 pF,50V	A A
C64	VCKYMF1HB331J	330 pF,50V	A A
C65	VCCSMF1HL330J	33 pF,50V	A A
C66	VCCCMF1HH200J	20 pF (CH),50V	A A
C68	VCKYMF1HB271J	270 pF,50V	A A
C69	VCCCPV1HH181J	180 pF,50V	A A
C70	VCCCMF1HH390J	39 pF (CH),50V	A A
C71	VCTYMF1HV332K	0.0033 μF,50V	A A
C72,73	VCTYMF1CY223N	0.022 μF,16V	A A
C76	VCCCMF1HH6R8D	6.8 pF (CH),50V	A A
C89	VCCCPU1HH2R0C	2 pF (CH),50V,E Only	A A
C99	VCTYPU1EX223M	0.022 μF,25V	A A
C103,104	VCKYMF1HB471K	470 pF,50V	A A
C105,106	VCKYMF1HB221K	220 pF,50V	A A
C109,110	VCTYPV1EX223K	0.022 μF,25V	A A
C113,114	VCTYMF1EX153M	0.015 μF,25V	A A
C119,120	VCTYMF1EX153M	0.015 μF,25V	A A
C155,156	VCKYMF1HB561K	560 pF,50V	A A
C157,158	VCKYMF1HB221K	220 pF,50V	A A
C159,160	VCTYPV1EX223K	0.022 μF,25V	A A
C163,164	VCTYMF1EX153M	0.015 μF,25V	A A
C203,204	VCKYMF1HB221K	220 pF,50V	A A
C207,208	VCTYMF1CY223M	0.022 μF,16V	A B
C209,210	VCTYMF1EX103K	0.01 μF,25V	A A
C253,254	VCKYMF1HB221K	220 pF,50V	A A
C257,258	VCTYMF1CY223M	0.022 μF,16V	A B
C301,302	VCKYMF1HB681K	680 pF,50V	A A
C312	VCTYMF1CY223N	0.022 μF,16V	A A
C351,352	VCKYMF1HB331K	330 pF,50V	A A
C353	VCKYPA1HB152K	0.0015 μF,50V	A A
C354	VCKYMF1HB471K	470 pF,50V	A A
C355	VCQPKQ2AA822J	0.0082 μF,100V, Polypropylene	A B
C356	RC-QZA393AFYK	0.039 μF,50V,±10%,Mylar	A B
C357	RC-QZA103AFYK	0.01 μF,50V,±10%,Mylar	A B
C358	VCKZPA1HF103Z	0.01 μF,50V	A A
C371,372	VCKYMF1HB221K	220 pF,50V	A A
C377,378	VCTYMF1EX822K	0.0082 μF,25V	A A
C379,380	VCTYMF1HV472K	0.0047 μF,50V	A A
C381,382	VCKYMF1HB102K	0.001 μF,50V	A A
C401	VCKYMF1HD122M	0.0012 μF,50V	A A
C402	VCTYPA1EX473M	0.047 μF,50V	A A
C404	VCKYMF1HB821K	820 pF,50V	A A
C405	VCTYPA1EX333K	0.033 μF,25V	A A
C406	VCCSMF1HL390J	39 pF,50V	A A
C407	VCKYMF1HB102K	0.001 μF,50V	A A
C409	VCTYPA1EX473M	0.047 μF,50V	A A
C411	VCTYMF1EX103N	0.01 μF,25V	A A
C414,415	VCTYMF1EX103N	0.01 μF,25V	A A
C419	VCTYMF1EX103N	0.01 μF,25V	A A
C421	VCKYMF1HB471K	470 pF,50V	A A
C455,456	VCKYMF1HB821K	820 pF,50V	A A
C461,462	VCTYPA1EX472J	0.0047 μF,25V	A A
C463,464	VCTYPA1EX273J	0.027 μF,25V	A B
C465,466	VCTYPA1EX562J	0.0056 μF,25V	A A
C469,470	VCTYPA1EX473J	0.047 μF,25V	A B
C499	VCTYPU1EX473M	0.047 μF,25V	A A
C505,506	VCTYPA1CX683M	0.068 μF,16V	A A
C509,510	VCTYPA1EX333K	0.033 μF,25V	A A
C513,514	VCTYMF1CY223N	0.022 μF,16V	A A
C517,518	VCTYMF1EX123K	0.012 μF,25V	A A
C519,520	VCFYHA1HA124J	0.12 μF,50V	A B
C521,522	VCTYMF1EX822K	0.0082 μF,25V	A A
C523,524	VCKYMF1HB681K	680 pF,50V	A A
C525,526	VCTYMF1EX682K	0.0068 μF,25V	A A
C527,528	VCKYMF1HD122M	0.0012 μF,50V	A A
C529,530	VCTYMF1EX153M	0.015 μF,25V	A A
C531,532	VCTYMF1HV222K	0.0022 μF,50V	A A
C533,534	VCTYMF1CY223N	0.022 μF,16V	A A
C535,536	VCTYMF1HV332K	0.0033 μF,50V	A A
C537,538	VCTYPA1EX333K	0.033 μF,25V	A A
C539,540	VCTYMF1EX682K	0.0068 μF,25V	A A
C541,542	VCTYPA1CX683M	0.068 μF,16V	A A
C545,546	VCTYMF1HV472K	0.0047 μF,50V	A A
C547,548	VCTYPA1CX104M	0.1 μF,16V	A B
C551,552	VCTYMF1EX562K	0.0056 μF,25V	A A
C601,602	VCTYPA1CX823M	0.082 μF,16V	A B
C610	VCKYMF1HB102K	0.001 μF,50V	A A
C611,612	VCTYPA1EX473M	0.047 μF,50V	A A
C619	VCTYMF1CY223N	0.022 μF,16V	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
C621,622	VCTYPA1EX273K	0.027 μF,25V	A A
C629	VCKYMF1HB391K	390 pF,50V	A A
C631,632	VCTYMF1EX153M	0.015 μF,25V	A A
C639	VCTYMF1CY223N	0.022 μF,16V	A A
C641,642	VCTYMF1EX822K	0.0082 μF,25V	A A
C651,652	VCTYMF1HV472K	0.0047 μF,50V	A A
C659	VCTYMF1CY223N	0.022 μF,16V	A A
C661,662	VCTYMF1HV272K	0.0027 μF,50V	A A
C671,672	VCTYMF1HV152K	0.0015 μF,50V	A A
C679	VCTYMF1CY223N	0.022 μF,16V	A A
C681,682	VCKYMF1HB821K	820 pF,50V	A A
C691,692	VCKYMF1HB471K	470 pF,50V	A A
C699	VCTYMF1CY223N	0.022 μF,16V	A A
C713,714	VCKZPA1HF103Z	0.01 μF,50V	A A
C715	VCKZPA1HF103Z	0.01 μF,50V	A A
C751,752	VCTYMF1CY223N	0.022 μF,16V	A A
C753	VCTYPA1CX104M	0.1 μF,16V	A B
C754,755	VCTYMF1CY223N	0.022 μF,16V	A A
C756	VCTYPA1CX104M	0.1 μF,16V	A B
C757	VCTYMF1EX103N	0.01 μF,25V	A A
C758	VCCCMF1HH330J	33 pF (CH),50V	A A
C759	VCTYPA1CX104M	0.1 μF,16V	A B
C760	VCTYMF1CY223N	0.022 μF,16V	A A
C801	VCKZPU1HF104Z	0.1 μF,50V	A B
C805,806	VCKYBT1HB102K	0.001 μF,50V	A A
C807,808	VCKYBT1HB102K	0.001 μF,50V	A A
C813,814	VCKYBT1HB102K	0.001 μF,50V	A A
C817,818	VCTYPA1EX103K	0.01 μF,25V	A A
C819,820	VCTYPA1EX103K	0.01 μF,25V	A A
C823,824	VCTYPA1EX103K	0.01 μF,25V	A A
C825,826	VCKYBT1HB101K	100 pF,50V	A A
C827,828	VCTYPA1EX103K	0.01 μF,25V	A A
C831,832	RC-QZA154AFYK	0.15 μF,50V,±10%,Mylar	A C
C833,834	VCKYBT1HB101K	100 pF,50V	A A
C837,838	VCTYPA1EX103K	0.01 μF,25V	A A
C839,840	RC-QZA154AFYK	0.15 μF,50V,±10%,Mylar	A C
C845,846	VCKYBT1HB102K	0.001 μF,50V	A A
⚠C847,848	VCKZPV1HF104Z	0.1 μF,50V	A C
⚠C849,850	VCKZPV1HF104Z	0.1 μF,50V	A C
C886	VCTYMF1CY223M	0.022 μF,25V	A B
C887	VCKZPA1HF103Z	0.01 μF,50V	A A
C999	VCCSPA1HL471J	470 pF,50V	A A

RESISTORS

(Unless otherwise specified, resistors are ±5%,carbon type.) (Tubular type carbon film resistor ±5% is identified the symbol MF of the part NO. VRD−MF0000000; this MF does not mean lead wire.)

	VRD-MF2EE000C	0 ohm,1/4W,Jumper	A A
R1	VRD-MF2EE391J	390 ohms,1/4W	A A
R4	VRD-MF2EE824J	820 kohms,1/4W	A A
R5	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R6	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R7	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R8	VRD-MF2EE330J	33 ohms,1/4W	A A
R9	VRD-MF2EE471J	470 ohms,1/4W	A A
R10	VRD-MF2EE152J	1.5 kohms,1/4W	A A
R11	VRD-MF2EE471J	470 ohms,1/4W	A A
R12	VRD-MF2EE331J	330 ohms,1/4W	A A
R13	VRD-MF2EE330J	33 ohms,1/4W	A A
R41	VRD-MF2EE102J	1 kohm,1/4W	A A
R42	VRD-MF2EE103J	10 kohm,1/4W	A A
R43	VRD-MF2EE224J	220 kohms,1/4W	A A
R44	VRD-MF2EE471J	470 ohms,1/4W	A A
R45,46	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R47,48	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R50	VRD-ST2CD222J	2.2 kohms,1/6W	A A
R61	VRD-MF2EE101J	100 ohm,1/4W	A A
R62	VRD-MF2EE330J	33 ohms,1/4W	A A
R65	VRD-MF2EE221J	220 ohms,1/4W	A A
R99	VRD-ST2CD222J	2.2 kohms,1/6W	A A
R101,102	VRD-MF2EE102J	1 kohm,1/4W	A A
R103,104	VRD-MF2EE820J	82 ohms,1/4W	A A
R105	VRD-ST2CD472J	4.7 kohms,1/6W	A A
R106	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R107,108	VRD-MF2EE682J	6.8 kohms,1/4W	A A
R109,110	VRD-MF2EE124J	120 kohms,1/4W	A A
R111,112	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R113,114	VRD-ST2CD104J	100 kohm,1/6W	A A
R115,116	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R121	VRD-ST2CD151J	150 ohms,1/6W	A A
R123	VRD-ST2CD822J	8.2 kohms,1/6W	A A
R124	VRD-MF2EE103J	10 kohm,1/4W	A A
R151,152	VRD-MF2EE102J	1 kohm,1/4W	A A
R153,154	VRD-MF2EE680J	68 ohms,1/4W	A A
R155,156	VRD-MF2EE682J	6.8 kohms,1/4W	A A
R157,158	VRD-MF2EE124J	120 kohms,1/4W	A A
R163,164	VRD-MF2EE470J	47 ohms,1/4W	A A
R165	VRD-ST2CD562J	5.6 kohms,1/6W	A A
R166	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R167	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R168	VRD-ST2CD332J	3.3 kohms,1/6W	A A
R171	VRD-ST2CD151J	150 ohms,1/6W	A A
R173	VRD-ST2CD822J	8.2 kohms,1/6W	A A
R174	VRD-ST2CD103J	10 kohm,1/6W	A A
R175	VRD-ST2CD102J	1 kohm,1/6W	A A
R201,202	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R203,204	VRD-MF2EE563J	56 kohms,1/4W	A A
R205,206	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R207,208	VRD-MF2EE154J	150 kohms,1/4W	A A
R209,210	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R211,212	VRD-MF2EE103J	10 kohm,1/4W	A A
R213,214	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R215,216	VRD-ST2CD563J	56 kohms,1/6W	A A
R217,218	VRD-MF2EE153J	15 kohms,1/4W	A A
R219	VRD-ST2CD561J	560 ohms,1/6W	A A
R221,222	VRD-MF2EE563J	56 kohms,1/4W	A A
R251,252	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R253,254	VRD-MF2EE100J	10 ohm,1/4W	A A
R255,256	VRD-MF2EE684J	680 kohms,1/4W	A A
R257,258	VRD-MF2EE220J	22 ohms,1/4W	A A
R259,260	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R261,262	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R263,264	VRD-MF2EE153J	15 kohms,1/4W	A A
R265,266	VRD-MF2EE102J	1 kohm,1/4W	A A
R267	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R301,302	VRD-MF2EE103J	10 kohm,1/4W	A A
R303,304	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R305,306	VRD-MF2EE152J	1.5 kohms,1/4W	A A
R307,308	VRD-MF2EE473J	47 kohms,1/4W	A A
R309,310	VRD-MF2EE183J	18 kohms,1/4W	A A
R311,312	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R315	VRD-MF2EE331J	330 ohms,1/4W	A A
R316	VRD-MF2EE473J	47 kohms,1/4W	A A
R318	VRD-MF2EE684J	680 kohms,1/4W	A A
R319	VRD-ST2CD473J	47 kohms,1/6W	A A
R331,332	VRD-MF2EE821J	820 ohms,1/4W	A A
R333,334	VRD-MF2EE332J	3.3 kohms,1/4W,H for Europe	A A
R333,334	VRD-MF2EE682J	6.8 kohms,1/4W,E,H for other than Europe	A A
R335	VRD-MF2EE121J	120 ohms,1/4W	A A
R341	VRD-MF2EE104J	100 kohm,1/4W	A A
R351	VRD-MF2EE103J	10 kohm,1/4W	A A
R352	VRD-MF2EE563J	56 kohms,1/4W	A A
R353	VRD-MF2EE4R7J	4.7 ohms,1/4W	A A
R355,356	VRD-MF2EE151J	150 ohms,1/4W	A A
R375,376	VRD-MF2EE473J	47 kohms,1/4W	A A
R377,378	VRD-MF2EE271J	270 ohms,1/4W	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
R379,380	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R381,382	VRD-ST2CD123J	12 kohms,1/6W	A A
R383,384	VRD-MF2EE272J	2.7 kohms,1/4W	A A
R387	VRD-MF2EE221J	220 ohms,1/4W	A A
R389,390	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R393,394	VRD-MF2EE102J	1 kohm,1/4W	A A
R395	VRD-ST2CD103J	10 kohm,1/6W	A A
R396	VRD-MF2EE684J	680 kohms,1/4W	A A
R397	VRD-ST2CD124J	120 kohms,1/6W	A A
R398	VRD-MF2EE103J	10 kohm,1/4W	A A
R399	VRD-ST2CD103J	10 kohm,1/6W	A A
R401	VRD-MF2EE474J	470 kohms,1/4W	A A
R402	VRD-MF2EE561J	560 ohms,1/4W	A A
R403	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R404	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R405	VRD-MF2EE393J	39 kohms,1/4W	A A
R406	VRD-ST2CD102J	1 kohm,1/6W	A A
R407	VRD-MF2EE104J	100 kohm,1/4W	A A
R408	VRD-MF2EE102J	1 kohm,1/4W	A A
R409	VRD-MF2EE680J	68 ohms,1/4W	A A
R410,411	VRD-MF2EE333J	33 kohms,1/4W	A A
R412	VRD-MF2EE103J	10 kohm,1/4W	A A
R413	VRD-MF2EE274J	270 kohms,1/4W	A A
R414	VRD-MF2EE103J	10 kohm,1/4W	A A
R415	VRD-MF2EE184J	180 kohms,1/4W	A A
R416	VRD-MF2EE103J	10 kohm,1/4W	A A
R417	VRD-MF2EE103J	10 kohm,1/4W	A A
R418	VRD-MF2EE104J	100 kohm,1/4W	A A
R419	VRD-MF2EE393J	39 kohms,1/4W	A A
R420	VRD-MF2EE223J	22 kohms,1/4W	A A
R421	VRD-MF2EE103J	10 kohm,1/4W	A A
R422	VRD-MF2EE102J	1 kohm,1/4W	A A
R423	VRD-MF2EE392J	3.9 kohms,1/4W	A A
R424	VRD-MF2EE823J	82 kohms,1/4W	A A
R425	VRD-MF2EE223J	22 kohms,1/4W	A A
R426	VRD-MF2EE103J	10 kohm,1/4W	A A
R427	VRD-MF2EE334J	330 kohms,1/4W	A A
R428	VRD-MF2EE274J	270 kohms,1/4W	A A
R429	VRD-MF2EE103J	10 kohm,1/4W	A A
R430	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R431	VRD-MF2EE153J	15 kohms,1/4W	A A
R432	VRD-MF2EE274J	270 kohms,1/4W	A A
R433	VRD-MF2EE394J	390 kohms,1/4W	A A
R434	VRD-MF2EE102J	1 kohm,1/4W	A A
R435	VRD-MF2EE224J	220 kohms,1/4W	A A
R436	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R437	VRD-ST2CD272J	2.7 kohms,1/6W	A A
R438	VRD-MF2EE223J	22 kohms,1/4W	A A
R439	VRD-MF2EE102J	1 kohm,1/4W	A A
R440	VRD-MF2EE152J	1.5 kohms,1/4W	A A
R441	VRD-MF2EE102J	1 kohm,1/4W	A A
R442	VRD-MF2EE223J	22 kohms,1/4W	A A
R443	VRD-MF2EE224J	220 kohms,1/4W	A A
R444	VRD-MF2EE102J	1 kohm,1/4W	A A
R449	VRD-ST2CD473J	47 kohms,1/6W	A A
R451,452	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R453,454	VRD-MF2EE104J	100 kohm,1/4W	A A
R455,456	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R457,458	VRD-MF2EE154J	150 kohms,1/4W	A A
R459,460	VRD-MF2EE274J	270 kohms,1/4W	A A
R461,462	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R463,464	VRD-MF2EE473J	47 kohms,1/4W	A A
R465,466	VRD-MF2EE181J	180 ohms,1/4W	A A
R467,468	VRD-MF2EE223J	22 kohms,1/4W	A A
R469,470	VRD-MF2EE272J	2.7 kohms,1/4W	A A
R471	VRD-MF2EE103J	10 kohm,1/4W	A A
R472	VRD-ST2CD103J	10 kohm,1/6W	A A
R473	VRD-MF2EE103J	10 kohm,1/4W	A A
R474	VRD-MF2EE123J	12 kohms,1/4W	A A
R475	VRD-MF2EE153J	15 kohms,1/4W	A A
R476	VRD-ST2CD473J	47 kohms,1/6W	A A
R477,478	VRD-MF2EE473J	47 kohms,1/4W	A A
⚠R479	VRG-ST2EF390J	39 ohms,1/4W,Fusible	A B
R481,482	VRD-ST2CD393J	39 kohms,1/6W	A A
R487	VRD-MF2EE102J	1 kohm,1/4W	A A
R488	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R499	VRD-ST2CD151J	150 ohms,1/6W	A A
R503,504	VRD-MF2EE124J	120 kohms,1/4W	A A
R505,506	VRD-MF2EE471J	470 ohms,1/4W	A A
R507,508	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R509,510	VRD-MF2EE102J	1 kohm,1/4W	A A
R511,512	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R513,514	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R520	VRD-ST2CD271J	270 ohms,1/6W	A A
R601	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R602	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R603	VRD-MF2EE394J	390 kohms,1/4W	A A
R604	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R606	VRD-MF2EE221J	220 ohms,1/4W	A A
R607	VRD-MF2EE331J	330 ohms,1/4W	A A
R608	VRD-MF2EE683J	68 kohms,1/4W	A A
R609,610	VRD-MF2EE273J	27 kohms,1/4W	A A
R611	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R612	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R613	VRD-MF2EE394J	390 kohms,1/4W	A A
R614	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R616	VRD-MF2EE221J	220 ohms,1/4W	A A
R617,618	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R619	VRD-ST2CD181J	180 ohms,1/6W	A A
R621	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R622	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R623	VRD-MF2EE394J	390 kohms,1/4W	A A
R624	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R626	VRD-MF2EE221J	220 ohms,1/4W	A A
R629	VRD-MF2EE224J	220 kohms,1/4W	A A
R631	VRD-ST2CD182J	1.8 kohms,1/6W	A A
R632	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R633	VRD-ST2CD394J	390 kohms,1/6W	A A
R634	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R636	VRD-MF2EE221J	220 ohms,1/4W	A A
R639	VRD-ST2CD181J	180 ohms,1/6W	A A
R641	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R642	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R643	VRD-MF2EE394J	390 kohms,1/4W	A A
R644	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R646	VRD-MF2EE221J	220 ohms,1/4W	A A
R651	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R652	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R653	VRD-MF2EE394J	390 kohms,1/4W	A A
R654	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R656	VRD-MF2EE221J	220 ohms,1/4W	A A
R659	VRD-ST2CD181J	180 ohms,1/6W	A A
R661	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R662	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R663	VRD-MF2EE394J	390 kohms,1/4W	A A
R664	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R666	VRD-MF2EE221J	220 ohms,1/4W	A A
R671	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R672	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R673	VRD-MF2EE394J	390 kohms,1/4W	A A
R674	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R676	VRD-MF2EE221J	220 ohms,1/4W	A A
R679	VRD-ST2CD181J	180 ohms,1/6W	A A
R681	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R682	VRD-ST2CD222J	2.2 kohms,1/6W	A A
R683	VRD-MF2EE394J	390 kohms,1/4W	A A
R684	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R686	VRD-MF2EE221J	220 ohms,1/4W	A A
R691,692	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R693	VRD-MF2EE394J	390 kohms,1/4W	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
R694	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R696	VRD-MF2EE221J	220 ohms,1/4W	A A
R699	VRD-ST2CD181J	180 ohms,1/6W	A A
R711,712	VRD-MF2EE221J	220 ohms,1/4W	A A
R713,714	VRD-MF2EE471J	470 ohms,1/4W	A A
⚠R715	VRG-ST2EF100J	10 ohm,1/4W,Fusible	A B
⚠R716	VRG-ST2EG1R0J	1 ohm,1/4W,Fusible	A B
R720	VRD-MF2EE103J	10 kohm,1/4W	A A
R721	VRD-ST2CD472J	4.7 kohms,1/6W	A A
R751,752	VRD-MF2EE104J	100 kohm,1/4W	A A
R753	VRD-ST2CD103J	10 kohm,1/6W	A A
R754	VRD-MF2EE103J	10 kohm,1/4W	A A
R755,756	VRD-MF2EE103J	10 kohm,1/4W	A A
R760	VRD-MF2EE561J	560 ohms,1/4W	A A
R801,802	VRD-ST2CD331J	330 ohms,1/6W	A A
R807～810	VRD-ST2CD181J	180 ohms,1/6W	A A
R811,812	VRD-ST2CD390J	39 ohms,1/6W	A A
⚠R813～816	VRG-ST2ED1R0J	1 ohm,1/4W,Fusible	A B
R817,818	VRD-ST2CD332J	3.3 kohms,1/6W	A A
R831,832	VRD-ST2CD221J	220 ohms,1/6W	A A
R840	VRD-ST2CD821J	820 ohms,1/6W	A A
R841	VRD-ST2CD330J	33 ohms,1/6W	A A
R851,852	VRD-MF2EE103J	10 kohm,1/4W	A A
R853,854	VRD-MF2EE274J	270 kohms,1/4W	A A
R855,856	VRD-MF2EE103J	10 kohm,1/4W	A A
⚠R857,858	VRG-ST2ED4R7J	4.7 ohms,1/4W,Fusible	A B
R859	VRD-MF2EE103J	10 kohm,1/4W	A A
R860	VRD-MF2EE223J	22 kohms,1/4W	A A
R861	VRD-MF2EE103J	10 kohm,1/4W	A A
R863,864	VRD-MF2EE104J	100 kohm,1/4W	A A
R865,866	VRD-MF2EE563J	56 kohms,1/4W	A A
R867,868	VRD-MF2EE221J	220 ohms,1/4W	A A
R869,870	VRD-MF2EE223J	22 kohms,1/4W	A A
R871,872	VRD-MF2EE103J	10 kohm,1/4W	A A
R873,874	VRD-MF2EE334J	330 kohms,1/4W	A A
R875,876	VRD-MF2EE563J	56 kohms,1/4W	A A
R877	VRD-MF2EE104J	100 kohm,1/4W	A A
R878	VRD-MF2EE223J	22 kohms,1/4W	A A
R879	VRD-MF2EE563J	56 kohms,1/4W	A A
R880	VRD-ST2CD563J	56 kohms,1/6W	A A
R881	VRD-MF2EE563J	56 kohms,1/4W	A A
R883,884	VRD-MF2EE103J	10 kohm,1/4W	A A
R885	VRD-ST2CD102J	1 kohm,1/6W	A A
R887,888	VRD-MF2EE102J	1 kohm,1/4W	A A
R898	VRD-MF2EE151J	150 ohms,1/4W	A A
R899	VRD-ST2CD103J	10 kohm,1/6W	A A
R998	VRD-ST2CD272J	2.7 kohms,1/6W	A A

OTHER CIRCUITRY PARTS

CNP1	QCNCM656FAFZZ	Socket,Wire Trap,6Pin	A B
CNP2	QCNCM583BAFZZ	Plug,2Pin	A A
CNP3	QCNCM583BAFZZ	Plug,2Pin	A A
CNP101	QCNCM683DAFZZ	Plug,4Pin	A A
CNP102	QCNCM683FAFZZ	Plug,6Pin	A B
CNP103	QCNCM588GAFZZ	Plug,7Pin	A B
CNP104	QCNCM591KAFZZ	Plug,10Pin	A C
CNP751	QCNCM692EAFZZ	Plug,5Pin	A B
CNP752	QCNCM095BAFZZ	Plug,2Pin	A B
CNP801	QCNCM656EAFZZ	Socket,Wire Trap,5Pin	A B
CNP802	QCNCM680DAFZZ	Socket,Wire Trap,4Pin	A C
⚠CNP803	QCNCM700EAFZZ	Socket,5Pin	A D
CNP804	QCNCM462BAFZZ	Plug,2Pin	A A
CNS2	QCNWN0414AFZZ	Connector Assembly,2Pin	A C
CNS3	QCNWN0405AFZZ	Connector Assembly,2Pin	A C
CNS101	QCNWN0409AFZZ	Connector Assembly,4Pin	A G
CNS102	QCNWN0411AFZZ	Connector Assembly,6Pin	A K
CNS103	QCNWN0412AFZZ	Connector Assembly,7Pin	A F
CNS104	QCNWN0410AFZZ	Connector Assembly,10Pin	A F
CNS751	QCNCW570EAFZZ	Connector Assembly,5Pin	A C
CNS752	QCNWN0417AFZZ	Connector Assembly,2Pin	A C
⚠CNS803	————	Socket,Part of T701	—
CNS804	QCNWN0415AFZZ	Connector Assembly,2Pin	A E
CORE1	RCŌRF0053AFZZ	Core,Bead,H Only	A B
⚠F801	QFS-C312GAFNi	Fuse,T3.15A	A D
⚠F802,803	QFS-C122GAFNi	Fuse,T1.25A	A D
J201	QJAKZ0197AFZZ	Socket,Phono/Line In/CD	A C
J202,203	QJAKE0111AFZZ	Jack,Mic	A D
J301	QJAKZ0197AFZZ	Socket,Line Out	A C
J801	QJAKJ0106AFZZ	Jack,Headphones	A F
J802	QTANZ0468AFZZ	Terminal,External Speaker	A E
LCD751	RV-LX0021AFZZ	LCD	A M
⚠M1,2	RMŌTV0236AF01	Motor,with Pulley	A U
RLY801	RRLYZ0113AFZZ	Relay	A H
⚠SO801	QSŌCE0563AFZZ	AC Power Supply Socket with AC/DC Selector Switch	A H
SOL1	RPLU-0195AFZZ	Solenoid	A F
SP1,2	VSPSQ21WB068A	Speaker,Woofer	A Y
SP3,4	VSP0050TB926A	Speaker,Tweeter	A L
SP5,6	RALMB0057AFZZ	Speaker,Super Tweeter	A C
SW1	QSW-B0181AFZZ	Switch,Lever Type	A M
SW2	————	Switch,Part of SW11～15	—
SW3	QSW-S0442AFZZ	Switch,Slide Type	A E
SW4～10	QSW-P0702AFZZ	Switch,Push Type, 5-Segment	A M
SW11～15	QSW-P0693AFZZ	Switch,Push Type, 7-Segment	A Q
SW16	QSW-S0536AFZZ	Switch,Slide Type	A E
SW17	QSW-S0267AFZZ	Switch,Slide Type	A D
SW18	————	Switch,Part of SW11～15	—
SW19～23	QSW-K0060AFZZ	Switch,Push Type	A B
SW29,30	QSW-K0060AFZZ	Switch,Push Type	A B
SW851,852	QSW-F0216AFZZ	Switch,Leaf Type	A B
SW853～855	QSW-F0197AFZZ	Switch,Leaf Type	A C
SW857	QSW-F0214AFZZ	Switch,Leaf Type	A C
TE201	QTANN0162AFZZ	Terminal,Earse	A B

MECHANICAL PARTS

2	LANGF0970AFFW	Bracket,Flywheel	A D
4	LPLTM0173AFFW	Plate,Cam Maintain	A B
5	LBSHZ0086AFZZ	Cushion,Motor	A A
6	LBSHZ0087AFZZ	Rubber,Lead Disposition	A A
7	LCHSM0573AFZZ	Main Chassis	—
8	LDAiH0066AFZZ	Bracket,Head	A D
9	LHLDW1075AFZZ	Nylon Band,60mm	A A
10	LHLDW1112AFZZ	Tape,6×30mm	A A
11	LHLDW3085AFZZ	Wire Holder	A A
12	LANGT1463AFFW	Bracket,Button	A D
13	LHLDZ3081AFFD	Holder,Clutch Gear Felt	A A
14	LHLDZ3082AFZZ	Holder,Metal	A A
15	LPiNZ0062AFFJ	Pin,Latch Plate	A B
16	LPiNZ0070AFFD	Rod,Reverse	A B
17	LPiNZ0071AFFD	Rod,Auto Stop	A B
18	LPLTM0166AFZZ	Head Base	A C
19	LPLTM0167AFZZ	Plate,Head	A E
20	LPLTM0168AFZZ	Plate,Over Stroke	A C
21	LPLTM0169AFZZ	Plate,Reverse	A C
23	LPLTM0172AFZZ	Plate,Lever Press	A E
24	NSFTT0408AFFW	Shaft,Button	A G
25	LRTNP0058AFZZ	Stopper	A A
26	LRTNP0059AF00	Retaining Ring	A A
27	LSLVM0217AFFW	Sleeve,Play Idler	A A
28	MARMM0073AFFW	Arm,Erase Prevention,Tape 2 Only	A B
29	MARMM0074AFFW	Arm,Play Selector	A A
30	MARMM0075AFFW	Arm,Stand-by,Tape 1 Only	A A
31	MARMP0033AF00	Arm,Reverse Cam Lock	A A
32	MARMP0034AF00	Arm,Reverse Cam	A B

REF.NO.	PART NO.	DESCRIPTION	CODE
33	MCAMP0075AF00	Cam,Play	A B
34	MCAMP0076AF00	Cam,Reverse	A B
35	MCAMP0077AF00	Cam,End	A B
36	MLEVF1805AFFW	Lever,Pause Back	A B
37	MLEVF1812AFFW	Lever,Fast-forward/Rewind Interlocking	A B
38	MLEVF1813AFFW	Lever,Main Lock,Tape 2	A B
38	MLEVF1888AFFW	Lever,Main Lock,Tape 1	A B
39	MLEVF1814AFFW	Lever,Switch	A B
40	MLEVF1815AFFW	Lever,Prevention,Tape 2 Only	A A
41	MLEVF1816AFFW	Lever,APSS Lock,Tape 2	A B
41	MLEVF1816AFZZ	Lever,APSS Lock,Tape 1	A C
42	MLEVF1818AFFW	Lever,APSS Lock Release	A A
43	MLEVF1819AFFW	Lever,Erase Prevent Mortion,Tape 2 Only	A A
44	MLEVF1820AFFW	Lever,Pause Mortion	A A
45	MLEVF1821AFFW	Lever,Eject	A A
46	MLEVF1822AFFW	Lever,Timing Cam	A A
47	MLEVF1838AFFW	Lever,Record	A B
48	MLEVF1839AFFW	Lever,Playback	A B
49	MLEVF1840AFFW	Lever,Rewind	A B
50	MLEVF1841AFFW	Lever,Stop	A A
51	MLEVF1842AFZZ	Lever,Pause	A C
52	MLEVF1843AFFW	Lever,Fast-forward	A B
53	MLEVP0502AFZZ	Lever,Pause Lock	A B
54	MLEVP0637AF00	Lever,Sensor	A A
55	MLEVP0638AF00	Lever,Brake Release	A A
56	MLEVP0639AF00	Lever,Latch Release	A A
57	MLEVP0640AF00	Lever,Erase Prevention, Tape 2 Only	A A
58	MLEVP0641AF00	Lever,Play Cam Lock	A B
59	MLEVP0642AF00	Lever,Timing	A A
60	MLEVP0643AF00	Lever,Head Pack	A A
61	MLEVP0644AF00	Lever,Fast-forward/ Rewing Release	A A
62	MLEVP0645AF00	Lever,End Selector	A A
63	MLEVP0646AF00	Lever,Direction Change	A A
64	MLEVP0647AF00	Lever,Record Releasege	A A
65	MLEVP0648AF00	Lever,Switch Operation	A B
66	MLEVP0650AF00	Lever,APSS Switch,Tape 1 Only	A A
67	MLEVP0652AF00	Lever,Mode Mortion	A A
68	MLEVP0653AF00	Lever,Stop Killer	A A
69	MLEVP0670AFZZ	Lever,Pause Stop,Tape 2 Only	A A
70	MLEVP0649AF00	Lever,Holder Lock	A B
75	MSPRC0449AFFJ	Spring,Latch Lock	A A
76	MSPRC0458AFFJ	Spring,Pause Lock Lever	A A
77	MSPRC0575AFFJ	Spring,Clutch Gear	A A
78	MSPRC0578AFFJ	Spring,Tape Guide	A A
79	MSPRC0579AFFJ	Spring,Azimuth	A A
80	MSPRC0580AFFJ	Spring,Back Tension	A A
81	MSPRC0581AFFJ	Spring,Back Release Lever	A A
82	MSPRC0582AFFJ	Spring,Pause Lever	A A
83	MSPRC0583AFFJ	Spring,Fast-forward Lever	A A
84	MSPRD0689AFFJ	Spring,Over Stroke Return	A A
85	MSPRD0690AFFJ	Spring,Play Cam Lock Lever	A A
86	MSPRD0691AFFJ	Spring,Stop/Rewind Return	A A
87	MSPRD0692AFFJ	Spring,Head Selector	A A
88	MSPRD0693AFFJ	Spring,Reverse Cam Lock Arm	A A
89	MSPRD0694AFFJ	Spring,Direction Change Drive	A A
90	MSPRD0696AFFJ	Spring,Pause Killer	A A
92	MSPRD0698AFFJ	Spring,Play Selector Arm	A A
93	MSPRD0699AFFJ	Spring,APSS Switch Lever, Tape 1 Only	A A
94	MSPRD0700AFFJ	Spring,Forward Pinch Roller	A A
95	MSPRD0701AFFJ	Spring,Reverse Pinch Roller	A A
96	MSPRD0722AFFJ	Spring,Head Prevention, Tape 2 Only	A A
97	MSPRD0723AFFJ	Spring,Reverse Stop	A A
98	MSPRP0370AFFW	Plate Spring,Cassette Retaining	A A
99	MSPRP0430AFFJ	Plate Spring,Head Plate	A A
100	MSPRT1196AFFJ	Spring,Main Lock Lever	A A
101	MSPRT1197AFFJ	Spring,Head Plate	A A
102	MSPRT1198AFFJ	Spring,End Selector	A A
103	MSPRT1205AFFJ	Spring,Erase Prevention, Tape 2 Only	A A
104	NBALS0006AGFJ	Steel Ball,ϕ2mm	A A
105	NBALS0056AFZZ	Steel Ball,ϕ1.5mm	A A
106	NBLTH0108AF00	Belt,Flywheel	A C
107	NBLTK0352AF00	Belt,Turntable	A B
108	NBRGC0116AFZZ	Capstan Metal,Forward	A B
109	NBRGC0117AFZZ	Capstan Metal,Reverse	A B
110	NDAiR0194AFZZ	Turntable,Take-up	A E
111	NDAiR0195AFZZ	Turntable,Supply	A C
112	NFLYC0136AFZZ	Flywheel,Reverse	A H
113	NFLYC0135AFZZ	Flywheel,Forward	A F
114	NGERH0186AFZZ	Gear,Fast-forward/Rewind	A E
115	NGERH0187AF00	Gear,Play	A A
116	NGERH0188AF00	Gear,Reduction	A A
117	NGERH0189AF00	Gear,Cluth	A A
118	NGERH0190AF00	Gear,Headh	A A
119	NiDR-0091AFZZ	Idler,Play	A D
121	NPLYR0116AFZZ	Pully,Flywheel Belt	A C
122	NRōLY0075AFZZ	Pinch Roller,Forward	A D
123	NRōLY0076AFZZ	Pinch Roller,Reverse	A D
124	PCUSF0033AF00	Felt,Cluth Gear	A A
125	PGiDM0129AF00	Guide,Tape	A A
126	RHEDF0100AFZZ	Head,Playback	A N
127	RHEDK0052AFZZ	Head,Record/Playback/ Erase	A V
129	MSPRT1216AFFJ	Spring,Playback Lever	A A
130A	JKNBR0476AFSA	Button,Auto Reverse Play, Tape1	A E
130B	JKNBR0477AFSA	Button,Record,Tape 2	A E
131	JKNBR0478AFSA	Button,Play	A E
132A	JKNBR0480AFSA	Button,Fast-forward	A E
132B	JKNBR0479AFSA	Button,Rewind	A E
133	JKNBR0481AFSA	Button,Stop	A E
134	JKNBR0482AFSA	Button,Pause	A E
135	MSPRT1224AFFJ	Spring,APSS Lock	A A
136	MSPRD0697AFFJ	Spring,Pause Back	A A
137	LANGT1462AFFW	Bracket,Direction Lever	A B
138	MLEVP0700AFZZ	Lever,Direction Interlocking	A B
140	MLEVP0698AFZZ	Lever,Reverse Mode	A B
141	MSPRT1233AFFJ	Spring,Earth	A A
142	MLEVP0699AFZZ	Lever,Direction	A B
143	LHLDW3056AFZZ	Wire Holder,Tape 1 Only	A A
502	LX-BZ0450AFZZ	Screw,ϕ2×6mm	A A
503	LX-BZ0451AFFD	Screw,ϕ2×6mm	A A
504	LX-HZ0143AFFD	Screw,ϕ2×8mm,Tape 1 Only	A A
505	LX-WZ1106AFZZ	Washer,Sensor	A A
506	LX-WZ1107AFZZ	Washer,ϕ3.5×ϕ5×0.25mm	A A
507	LX-WZ5018AGZZ	Washer,ϕ2.1×ϕ4×0.25mm	A A
508	LX-WZ9053AFZZ	Washer,ϕ2.4×ϕ5×0.5mm	A A
509	LX-WZ9064AFZZ	Washer,ϕ1.5×ϕ3.8×0.5mm	A A
510	XBPSD14P07000	Screw,ϕ1.4×7mm	A A
511	XHBSD20P04000	Screw,ϕ2×4mm	A A
512	XJBSD20P06000	Screw,ϕ2×6mm	A A
513	XJBSD26P08000	Screw,ϕ2.6×8mm	A A
514	XNESD20-16000	Nut,ϕ2×1.6mm	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
515	XREUJ15-04000	Stop Ring,E-Type,φ1.5×0.4mm	A A
516	XWHJZ21-05040	Washer,φ2.1×φ4×0.5mm	A A
517	XWHJZ23-05044	Washer,φ2.3×φ4.4×0.5mm	A A
518	XWHJZ47-02075	Washer,φ4.7×φ7.5×0.2mm	A A
520	XWHSD21-05065	Washer,φ2.1×φ6×0.5mm	A A
521	LX-BZ0571AFFD	Screw,φ2×4mm	A A
522	XASSF17P03000	Screw,φ1.7×3mm	A A
523	XWHNZ26-05047	Washer,φ2.6×φ4.7×0.5mm	A A
524	XREUJ30-06000	Stop Ring,E-Type,φ3×0.6mm	A A
525	XJBSD30P08000	Screw,φ3×8mm	A A
526	XWVSD27-03000	Lock Washer,φ2.7mm	A A

CABINET PARTS

201	CCAB-1555AF01	Front Panel Assembly	B D
201-1	————	Front Panel	—
201-2	HBDGB1001GESA	Badge,SHARP	A C
201-3	HDALM0473AFSA	Dial Scale	A P
201-4	HDECA0643AFSA	Decoration Plate,Top	A H
201-5	HiNDM1670AFSA	Indication Plate,Switch	A G
201-6	HiNDM1661AFSA	Indication Plate,Graphic Equalizer	A N
201-7	HiNDM1662AFSA	Indication Plate,Jack	A E
201-8	HiNDM1663AFSA	Indication Plate,Mechanism	A N
201-9	HiNDM1664AFSA	Indication Plate,Mode	A D
201-10	PCŌVM9077AF00	Felt,Knob Cover	A B
201-11	TLABZ0645AFZZ	Mirror Label	A A
202	CCAB-2181AF01	Rear Cabinet Assembly,E,H for Europe	A Y
202	CCABB2184AF01	Rear Cabinet Assembly,H for other than Europe	A Y
202-1	————	Rear Cabinet,E,H for Europe	—
202-1	————	Rear Cabinet,H for other than Europe	—
202-2	PSLDM7161AFZZ	Shield Plate	A C
202-3	QTANB9127AFFN	Terminal,Battery +	A C
202-4	TLABT0055AFZZ	Label,Dolby	A A
202-5	TLABT0053AFZZ	Label,Patent,E,H for Europe	A A
203	CSPRT1029AF13	Dial Cord Assembly	A C
204	GCŌVH1179AFSJ	Cover,AC Power Supply Socket	A B
205	GFTA-0066AFSA	Cassette Holder Assembly, Tape 1	A R
205-1	————	Cassette Holder	—
205-2	HiNDP1641AFSA	Indication Plate,Tape 1	A C
205-3	HPNLH1153AFSA	Plate,Transparent	A K
205-4	MSPRD0788AFFJ	Spring,Cassette Press	A A
205-5	PGiDM0130AFSA	Gaide,Cassette,Left	A B
205-6	PGiDM0131AFSA	Gaide,Cassette,Right	A B
206	GFTA-0067AFSA	Cassette Holder Assembly, Tape 2	A R
206-1	————	Cassette Holder	—
206-2	HiNDP1642AFSA	Indication Plate,Tape 2	A C
206-3	HPNLH1154AFSA	Plate,Transparent	A K
206-4	MSPRD0788AFFJ	Spring,Cassette Press	A A
206-5	PGiDM0130AFSA	Gaide,Cassette,Left	A B
206-6	PGiDM0131AFSA	Gaide,Cassette,Right	A B
207	GFTAB1132AFSF	Lid,Battery Compartment	A F
208	HiNDP1685AFSA	Indication Plate,Spectrum Analyzer	A G
209	HPNLH1155AFSA	Window,Spectrum Analyzer	A F
210	HSSND0394AFSA	Pointer,Dial	A C
211	JHNDG1097AFSE	Handle	A R
212	JKNBK0282AFSB	Knob,Band Selector	A B
214	JKNBM0547AFSJ	Button,Push,Red	A B
215	JKNBM0547AFSK	Button,Push,Gray	A B
216	JKNBM0696AFSA	Button,Clock	A D
217	JKNBM0697AFSA	Button,APLD/APPS	A C
218	JKNBN0576AFSA	Knob,with Shaft,Tuning	A C
219	JKNBP0275AFSA	Knob,Volume,Left	A D
220	JKNBP0276AFSA	Knob,Volume,Right	A D
221	JKNBR0475AFSA	Button,Dubbing Start	A E
222	JKNBZ0475AFSC	Knob,Reverse Mode	A B
223	JKNBZ0476AFSC	Knob,Direction	A B
224	KCŌUB0198AFZZ	Tape Counter	A G
225	LANGQ1003AFZZ	Bracket,Jack	A E
226	LANGQ1004AFZZ	Bracket,Timer PWB	A C
227	LHLDF1364AFZZ	Frame,Tuner	A H
228	LHLDF1365AFZZ	Frame,Main	A H
229	LHLDL1060AF00	Holder,Handle	A B
230	LHLDP1096AFZZ	Holder,LED	A D
231	LHLDZ1320AFSA	Holder,Knob	A E
232	LSLVP0007AFZZ	Sleeve,Heat Sink	A B
233	LSTPZ0056AFZZ	Stopper,Tuner Frame	A B
234	MLEVF1886AFZZ	Lever,Dubbing Start	A E
235	MLEVF1887AFZZ	Lever,Record/Playback	A C
236	MLiFP0034AFZZ	Damper	A C
237	MSPRC0509AFFW	Spring,Battery,+	A B
238	MSPRC0510AFFW	Spring,Battery,-	A B
239	MSPRC0513AFFJ	Spring,Battery,+,-	A C
240	MSPRC0620AFFJ	Spring,Dubbing Start	A A
241	MSPRC0624AFFJ	Spring,Battery,-	A B
242	MSPRC0630AFFJ	Spring,Earse	A A
243	MSPRD0671AFFJ	Spring,Record/Playback Lever	A B
244	MSPRD0760AFFJ	Spring,Cassette Holder	A A
245	NBLTK0369AFZZ	Belt,Tape Counter	A B
246	NDRM-0200AFZZ	Drum	A C
247	NPLYB0051AFZZ	Pulley,φ7mm	A A
248	NPLYB0060AFZZ	Pulley,φ10mm	A B
249	NPLYB0083AFZZ	Pulley,φ13mm	A B
250	PCŌVP9173AFZZ	Cover,Power Supply	A D
251	PCUSU0309AFZZ	Cushion,Battery	A A
252	PRDAR0454AFFW	Heat Sink	A K
253	PRDAR0455AFFW	Heat Sink	A C
255	PSLDM9106AFZZ	Shield Plate,Graphic Equalizer	A D
256	PSPAG0143AF00	Spacer,LCD	A B
257	QANTR0136AFZZ	Rod Antenna	A M
258	QFSHD2051AFZZ	Fuse Holder	A A
259	PSLDM3421AFZZ	Shield Plate,Power Amp PWB	A D
260	GLEGG0085AF00	Leg	A B
261	PFLT-0739AF00	Felt,15×10×0.5mm	A A
262	PSPAi0337AFZZ	Fiber,10×5×1mm	A A
263	PGUMS0411AF00	Rubber,50×7×4mm	A B
264	PSPAZ0234AFZZ	Fiber,60×7×0.5mm	A A
265	HiNDP1686AFSA	Label,Specifications,H for Europe	A C
265	HiNDP1697AFSA	Label,Specifications,H for other than Europe	A C
265	HiNDP1698AFSA	Label,Specifications,E	A C
266	TCAUH0379AFZZ	CautionLabel, Dubbing, E Only	A A
601	LX-BZ0286AFFF	Screw,φ2×12mm	A A
602	LX-JZ0078AFFD	Screw,φ3×7.5mm	A A
603	LX-CZ0011AFFD	Screw,φ3×65mm	A A
604	LX-CZ0062AFFD	Screw,φ3×11mm	A A
605	LX-JZ0004AFFD	Screw,φ3×14mm	A A
607	XBPSC30P14J00	Screw,φ3×14mm	A A
608	XBPSD26P08J00	Screw,φ2.6×8mm	A A
609	XCBSD26P08000	Screw,φ2.6×8mm	A A
610	XCBSD30P10000	Screw,φ3×10mm	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
611	XCBSD30P12000	Screw, ϕ3×12mm	A A
612	XCBSD30P16000	Screw, ϕ3×16mm	A A
613	XCTSD40P12000	Screw, ϕ4×12mm	A B
615	XHBSD30P06000	Screw, ϕ3×6mm	A A
616	XHBSD30P10000	Screw, ϕ3×10mm	A A
617	XNEBN20-16000	Nut, ϕ2×1.6mm	A A
619	XREUJ30-06070	Stop Ring,E-Type, ϕ3×0.6 mm	A A
622	LX-BZ0308AFFD	Screw, ϕ3×6mm	A A
623	XCBSD30P08000	Screw, ϕ3×8mm	A A

SPEAKER BOX PARTS

301	CCABB2159AF01	Rear Cabinet,Left	A Y
302	CCABB2160AF01	Rear Cabinet,Right	A Y
303	GCAB-1541AFSA	Front Panel Assembly	A W
303-1	————	Front Panel	—
303-2	HPNC-0232AFSA	Punching Metal,Woofer	A H
305	HDECQ0287AFSA	Grille,Tweeter	A L
306	HPNC-0233AFSA	Punching Metal,Tweeter	A E
307	LANGZ0156AFFW	Bracket,Resonance Prevention	A C
308	LANGZ0160AFFW	Bracket,Resonance Prevention	A D
309	LBSHC0065AFZZ	Bushing,Speaker Cord	A B
310	MLEVP0696AFSA	Lever,Speaker Release,Left	A B
311	MLEVP0702AFSA	Lever Speaker Release, Right	A B
312	PFLT-0405AFZZ	Leg	A A
313	PFLT-0597AF00	Felt	A A
314	PKYU-0085AFZZ	Acoustic Material	A E
315	QCNWG0021AFZZ	Speaker Cord	A G
801	LX-CZ0017AFFD	Screw, ϕ3×25mm	A A
802	LX-CZ0032AFFD	Screw, ϕ6.3×16mm	A A
803	LX-CZ0039AFZZ	Screw, ϕ3×8mm	A A
804	LX-CZ0047AFFD	Screw, ϕ4×8mm	A A

ACCESSORIES/PACKING PARTS

⚠	QACCB0061AF09	AC Power Supply Cord,E	A H
⚠	QACCK0053AFZZ	AC Power Supply Cord,H	A L
⚠	QACCL0059AF00	AC Power Supply Cord,H	A L
	RTPEK0101AFZZ	Cassette Tape,H for other than Europe Only	A K
	SPAKA1633AFZZ	Packing Add.,Left,H for other than Europe	A G
	SPAKA1634AFZZ	Packing Add.,Right	A G
	SPAKA1635AFZZ	Packing Add.,Speaker Top	A E
	SPAKA1636AFZZ	Packing Add.,Speaker Bottom	A E
	SPAKA1671AFZZ	Packing Add.,Left,E,H for Europe	A F
	SPAKC4051AFZZ	Packing Case,H for Europe	A Q
	SPAKC4075AFZZ	Packing Case,E	A Q
	SPAKC4171AFZZ	Packing Case,H for other than Europe	A Q
	SPAKP0702AFZZ	Polyethylene Bag,Speaker	A D
	SPAKP0711AFZZ	Polyethylene Bag,Main Bod	A A
	SSAKA0035AFZZ	Polyethylene Bag, Accessory	A A
	TCAUA0309AFZZ	Caution Label,AC,H for Saudi Arabia	A A
	TCAUH0056AGZZ	Caution Label,AC Cord,E	A A
	TGANE1117AFZZ	Warranty Card,E	A B
	TGANE1135AFZZ	Warranty Card,H for Australia	A C
	TGANG1054AFZZ	Warranty Card,H for Europe	A A
	TiNSE1200AFZZ	Operation Manual,E	A K
	TiNSZ0934AFZZ	Operation Manual,H for Europe	A N
	TiNSZ0937AFZZ	Operation Manual,H for other than Europe	A N
	TLABJ0006AFZZ	Label,MADE IN JAPAN,E Only	A A
	TLABZ0893AFZZ	Label,Spectrum Analyzer	A D
	TLABZ0927AFZZ	Label,Tape 1,H for Europe	A C
	TLABZ0951AFZZ	Label,Tape 1,H for other than Europe	A B
	TLABZ0952AFZZ	Label,Tape 2,H for other than Europe	A C
	TLABZ0953AFZZ	Label,Tape 1,E	A C
	UBATU0008AGZZ	Battery,SUM-3E	A C
	UBATU0009AGZZ	Battery,R20,H for other than Europe Only	A C
	TCAUH0352AFZZ	Caution Label, Dubbing, E Only	AA

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~A5	DKEND0659AF01 (Combined Assembly)	Main/LED/Timer/Mic Jack/Connector,H for Europe	—
PWB-A1~A5	DKEND0659AF04 (Combined Assembly)	Main/LED/Timer/Mic Jack/Connector,E and H for other than Europe	—
PWB-B	DUNTR0209AF51	Tuner,H	—
PWB-B	DUNTR0209AF52	Tuner,E	—
PWB-C1/C2	DKEND0663AF01 (Combined Assembly)	Power Amp/Headphones Jack	—

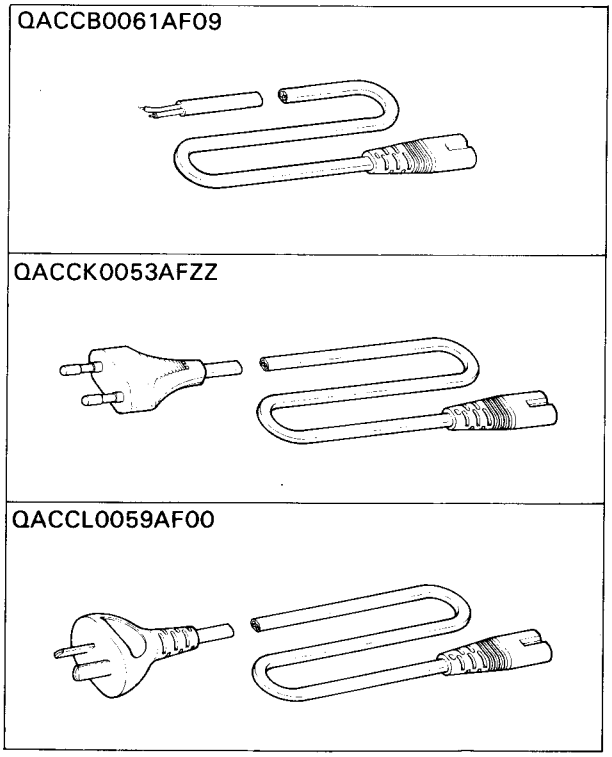


Figure 42 AC POWER SUPPLY CORD

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